



User's Manual

NVR-3250

32-Channel Network Video Recorder



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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance. (example-use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions: (1) This device may not cause harmful interference, and (2) this Device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Energy Saving Note of the Device

This power required device does not support Stand by mode operation.

For energy saving, please remove the AC-plug to disconnect the device from the power circuit.

Without remove the AC-plug or switch off the device, the devices will still consuming power from the power circuit. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to switch off or remove the DC-plug for the device if this device is not intended to be active.

Revision

User's Manual for PLANET 32-ch Network Video Recorder

Model: NVR-3250

Rev: 1.0 (May, 2012)

Part No. EM-NVR3250_v1.0

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1. Product Description

The PLANET NVR-3250 is the rack-mount NVR, which optimizes your space utilization by controlling your systems in just 1U space on the rack. It is the new model of Network Video Recorder (NVR) series designed for IP surveillance system. Users can just turn on cameras and the NVR to easily protect their office and property under the Ethernet / IP networks. The recorded video files can be saved in the NVR and no need of using additional PC for files storage, which brings users a secure surveillance system with lower total cost.

The NVR-3250 provides powerful central surveillance management capability with its bundled Central Management Software (CMS). One NVR-3250 can manage up to 32 IP cameras via a connected IP network. With the bundled CMS, the NVR system is expandable for multi-sites management of up to 1024 surveillance channels simultaneously*. With the NVR-3250, users can view remote surveillance in real time and play back recorded videos via the bundled CMS software or the web browser. The NVR also helps the administrators to monitor the surveillance system more efficiently by providing multi-monitor and E-Map function.

The NVR-3250 not only supports PLANET IP cameras but also is compatible with most of major IP camera brands in the market. Furthermore, the NVR-3250 can automatically search and find the available cameras in the network and provide smart setup wizard program, so it greatly reduces users' effort when setting up the system.

The NVR-3250 is suitable to fit in various network environments. Besides for small scale applications in retail stores and SMB, the NVR-3250 offers 4 SATA HDD supporting RAID 0 / 1 / 5 / 10 function and able to be applied in large scale surveillance such as bank, enterprises, transportation, campus and etc.

* The full version of CMS software can be purchased additionally to manage up to 1,024 channels by working with the NVR-3250.

1.1 Product Features

Video/Audio:

- Simultaneous Recording and Live Video Streams
- 32 channels IP cameras input
- Supports M-JPEG / MPEG-4 / H.264 multiple compressions
- Video resolution up to 5MP (2560 * 1920)
- VGA local display
- Two-Way Audio function (G.711, G.726)

Record:

- Manual / Schedule / Event recording of 32 IP cameras simultaneously
- Video recycle function makes the video recording in 24/7
- 960fps at 1.3MegaPixel, H.264
- Supports 4 SATA HDD (RAID 0 / 1 / 5 / 10), up to 3TB per HDD
- 1 x E-SATA (Max 8TB)
- Exports record video file to AVI format

System:

- Web / Local and management utility for easy configuration
- E-Map interface in Web / Local and utility configuration
- Auto discover by management software
- Smart IP camera search
- DI / DO port for external sensor and alarm

- Multiple languages support
- Supports mobile phone remote view with Android, WinMo, Symbian S60, iPhone, Blackberry 4.6
- Manage up to 32 NVRs (max. **1024** IP camera channels) with the management software
- Supports Real Time Clock (RTC)

Network:

- 1 x RJ-45, 10/100/1000Base-T
- TCP/IP, DHCP, DNS, HTTP, FTP, NTP, SMTP, UpnP
- Microsoft Networks (CIFS/SMB), Internet (HTTP), FTP

Hardware:

- 1U standard 19" rack-mount designed.
- Gigabit Ethernet port
- E-SATA / VGA / USB interfaces supported
- Audio line-in, line out, Mic port
- Supports external UPS
- Auto power-on and recording after power recovery

1.2 System Requirements

The following are minimum system requirements for the system to operate Network Video Recorder (NVR):

Operating System

Microsoft® Windows® 2000 Professional, Windows® XP Professional (32 bit) or Windows® Server 2003 (32 bit) **Browser** Microsoft Internet Explorer 7 or above

CPU

Minimum Intel® Pentium® 4 2.4 GHz or higher (Dual Core is recommended) **RAM** Minimum 1 GB of RAM, 2GB or above is recommended

Network

Minimum 10/100 Ethernet (Gigabit Ethernet is recommended)

Graphics Adapter

AGP or PCI-Express, minimum 1024 x 768, 16 bit colors.(We highly recommend to work above the 1024 x 768 resolution to get the full experience of the software)

 NOTE	Make sure your display DPI setting is set to default at 96DPI To set DPI value, right-click on desktop, choose "Settings" tab >> "Advanced" >> "General"
----------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------

1.3 Packet Content

- 1 x NVR
- 1 x Power Cord
- 1 x RJ-45 Cable
- 1 x CD-ROM
- 1 x Quick Installation Guide
- 16 x HDD Screw
- 2 x Angle Bar
- 4 x Angle Screw
- 2 x Handle Kit
- 4 x Angle Screw

1.4 Specification

Product	NVR-3250
Video/ Audio	
Video Input	32 channels IP cameras
Video output	VGA local display, web interface
Resolution	5MP/Full HD/MegaPixel/FD1/CIF/QCIF
Local video display	Video streaming: H.264/MPEG4 VGA output Snapshot: MJPEG
Audio	Yes (G.711/G.726) Two-way at local/web interface
Record	
Recording Mode	Manual, Schedule, Event
Frame Rate/ Resolution	960fps at 1.3MegaPixel, H.264
Export File Format	AVI
Storage Device	4 x 3.5" SATA hard disk connectors Max. Capacity: 12TB (3TB per HDD) 1 x E-SATA (Max 8TB)
System	
Management	Web-Based administration USB mouse/Keyboard at Local control Network Time Protocol Multiple users account E-mail notification System log Firmware upgrade
User Interface	Web browser CMS utility Local display interface
E-Map	Web browser CMS utility Local display interface
USB Interface	4 x USB port, Firmware upgrade, USB mouse/keyboard
DI / DO	8 / 4
Network	
Ethernet	1 x RJ-45, 10/100/1000Base-T
Network Service	TCP/IP, DHCP, DNS, HTTP, FTP, NTP, SMTP, UPnP
Network File Protocol	Microsoft Networks (CIFS/SMB), Internet (HTTP), FTP
Hardware	

Button	Power, Reset
LED Display	1 x Power 1 x System 1 x Event
Power	100~240V AC, 0.7A / Max. 50/60Hz
Operating Temperature	0~40 Degree C
Dimensions (W x D x H)	462 x 430 x 54 mm
Weight	7Kg

- The full version of CMS software can be purchased additionally to manage up to 1,024 channels by working with the NVR-3250.

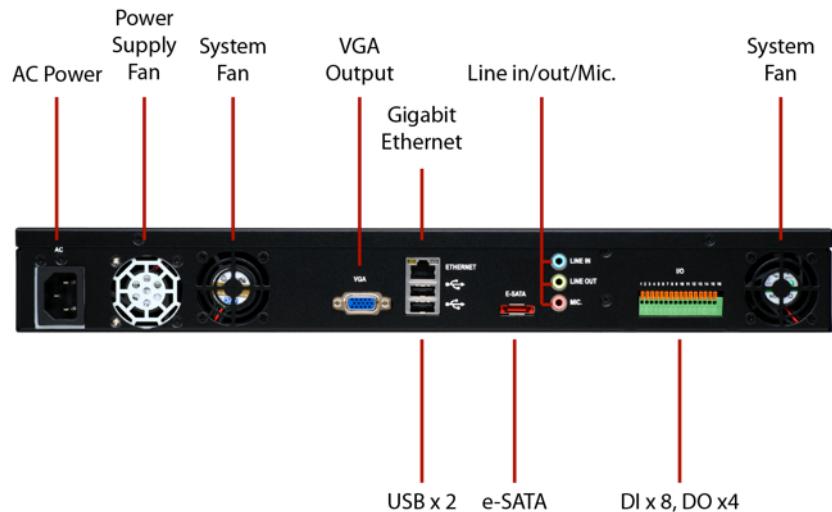
1.5 Physical Specifications

Front Panel



LEDs	Color	Description
Power	Blue	During power on / restart / reset to default / OS fail : stays solid
System	Amber	Firmware upgrade : blinking System failure (AP fail) : off System Normal : Solid
Event	Amber	Event Recording : Solid No event : Off

Rear panel



Connector	Description
VGA	VGA output
Ethernet	10/100/1000 Mbps network.
USB	Connect your USB flash disk for firmware upgrade and backup.
E-SATA	External E-SATA HDD
Audio	Line in/Line out/Mic
I/O	DI x 8 / DO x 4

2. Hardware Installation

1. Start by removing the front plate.



2. To remove the front plate, turn the tool-less screws on both sides counter-clock wise to loose it from the unit. Please note the screws will still be attached to the front plate even after the screws are completely loosened from the unit.



3. Simply pull to remove the front plate once the screws are loosened from the unit.



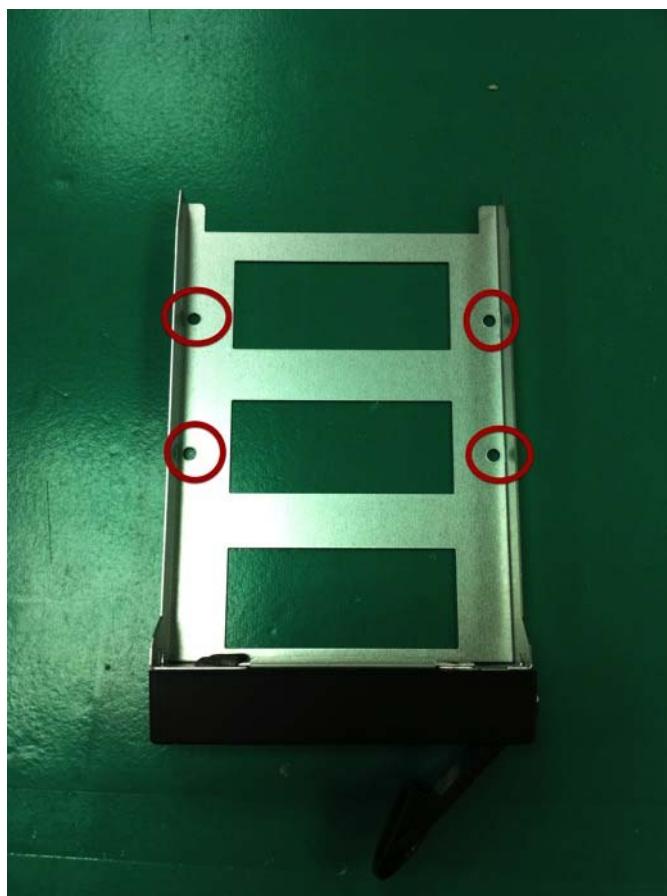
4. Remove the HDD tray by pulling the latch.



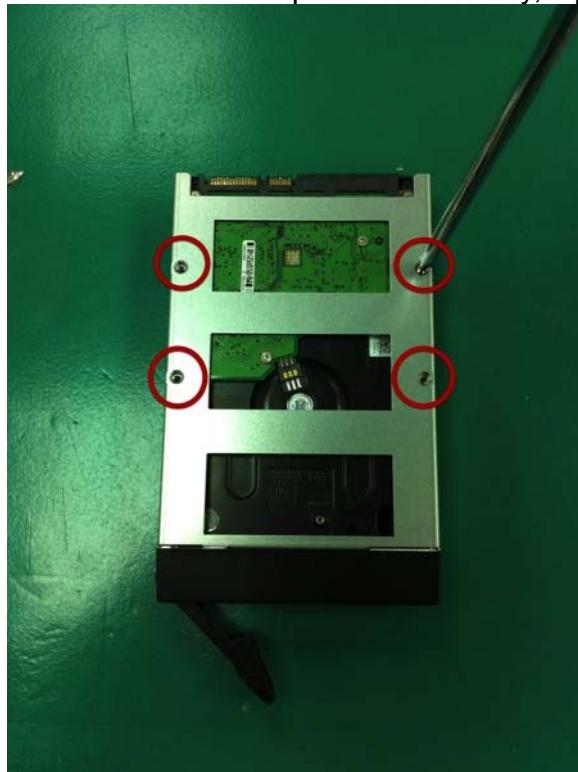
5. Push the tray door back to the case to secure it.



6. Once the tray is removed from the unit, notice there are four holes, which are used to secure the HDD.



7. Once the HDD is placed in the tray, flip it over and secure the HDD with the screws.



8. Push the tray back in to the unit and push it all the way in.



9. Secure the tray by pushing in the latch, which locks the tray with the unit.



2.1 Rack Mounting

To install the NVR-3250 in a 19-inch standard rack, please follows the instructions described below.

Step1: Place the NVR-3250 on a hard flat surface, with the front panel positioned towards the front side.

Step2: Attach the rack-mount bracket to each side of the NVR-3250 with supplied screws attached to the package.



You must use the screws supplied with the mounting brackets. Damage caused to the parts by using incorrect screws would invalidate the warranty.

Step3: Secure the brackets tightly.

Step4: Follow the same steps to attach the second bracket to the opposite side.

Step5: After the brackets are attached to the NVR-3250, use suitable screws to securely attach the brackets to the rack,

3. Connect to the NVR

There are various ways you can connect to the NVR and below are the suggested methods for different network setup:

The NVR is placed in a network with a DHCP server: Connect to the NVR by using "**Device Search**" Utility.

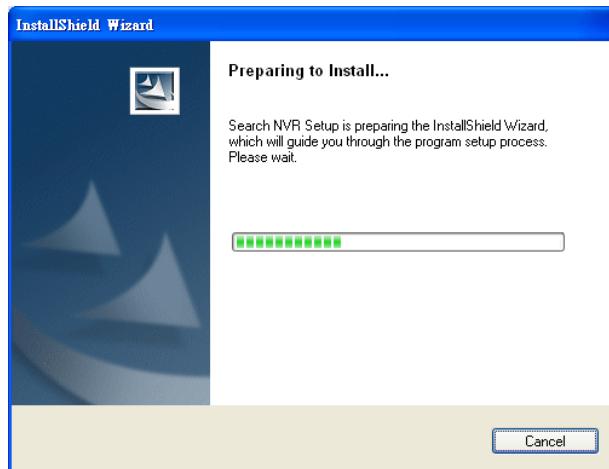
The NVR is placed in a network without DHCP server (or you are connecting to it directly): **Access NVR with its default IP (192.168.0.20)**.

3.1 Use Device Search Utility

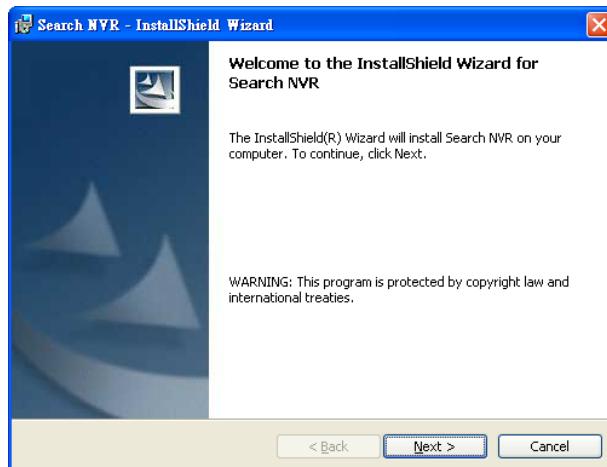
If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, please install the "Device Search" utility from the bundled CD disk.



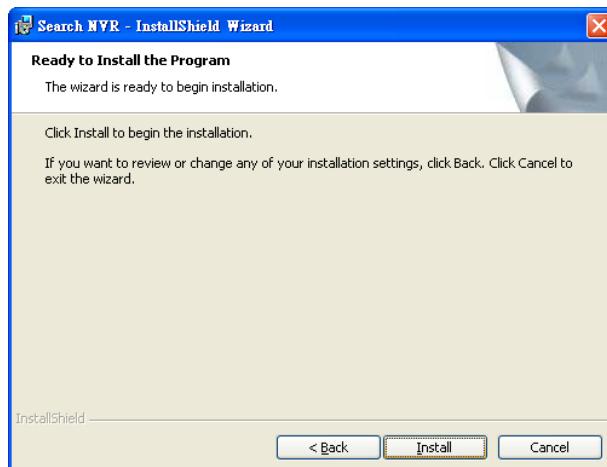
To begin, launch the "Device Search" utility from the CD and proceed with the installation.



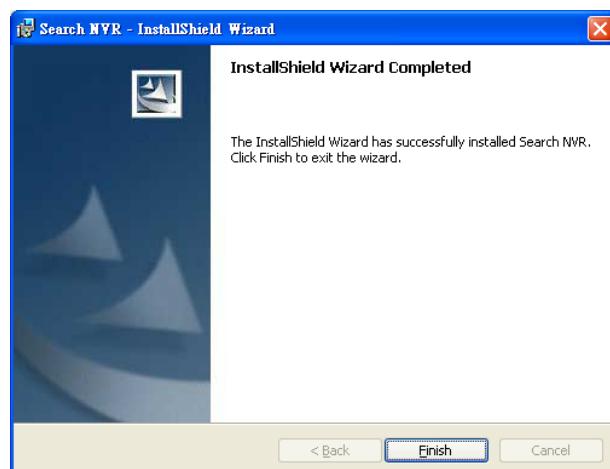
Please click "Next" to continue.



Please click "Install" to start the installation.



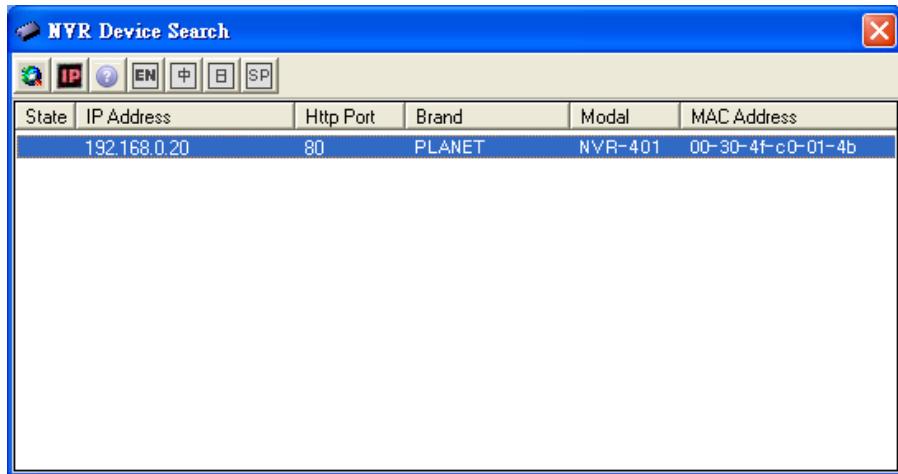
Once the installation is complete, please check the "Finish".



Please go to Start => Programs => NVR => Search NVR to run the search tool. Then you will see the utility start search the network.



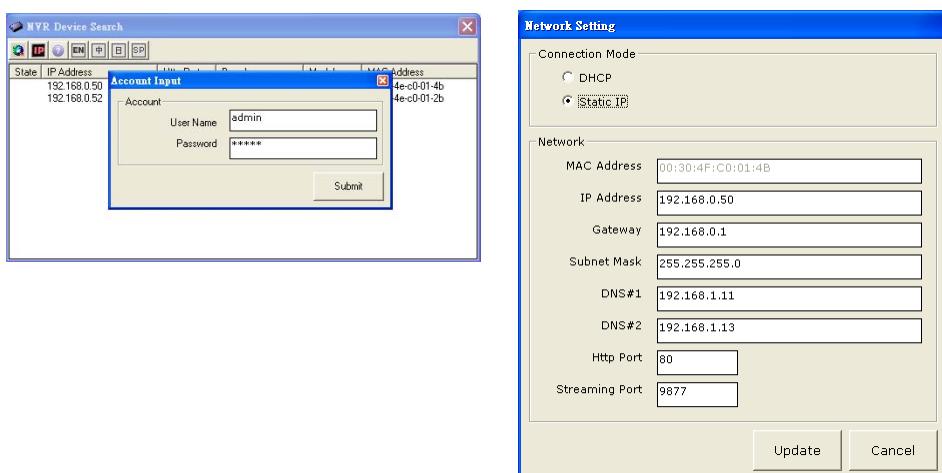
The NVR should be located and its IP address should be displayed: Double-click on it and the program should automatically access the NVR's web administration page from your default browser.



You may change NVR's IP address by click on the button highlighted below.



You will be prompted for the NVR's login information before proceeding to change device's IP address.



You may click on the button highlighted below to perform search again. Or double-click on any of the search results to access NVR's web administration page.



Perform search again

Access NVR's web administration page

You should be prompted for the NVR's username and password. Enter its default username "**admin**" and password "**admin**" and then click "OK" to enter the system.

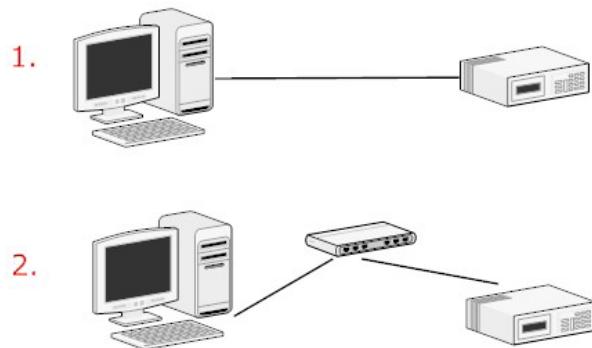
Default User Name: **admin**

Default Password: **admin**

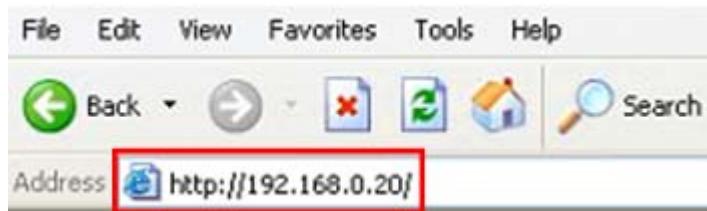


3.2 Access NVR with its default IP address

The NVR comes with a pre-configured static IP address “**192.168.0.20**”. However, it is only used when there is no DHCP server presented in the network. Connect the NVR and PC to your switch or hub, or connect the PC directly to the NVR using a crossover CAT5 Ethernet cable.



The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from it. Simply access the NVR from your web browser with NVR default IP address.



You should be prompted for the user name and password. Enter its default username “**admin**” and password “**admin**” and then click “OK” to enter the system.



4. Live View

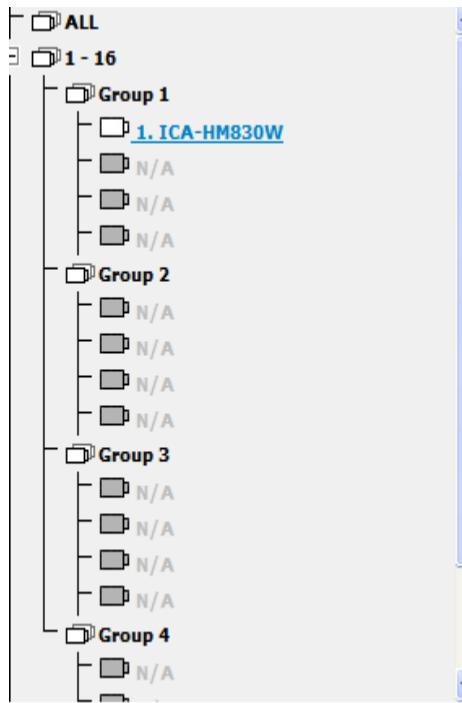


The 32 channel NVR comes with a 32-video split window view with one video displays on a larger window. Select a channel from the drop-down menu to display its video on the larger split window. You can also double-click on any of the smaller one to display its video to the larger window.

The “Live View” page provides the following functions:

- Retrieve camera's video stream
- Retrieve camera's status
- Perform Live Sequence Viewing
- PTZ Control
- Perform PTZ Preset Sequence viewing
- Perform manual recording
- Take snapshot
- Receive audio of a video stream
- Send audio
- Control “Buzzer”
- Change web UI display language

4.1 Retrieve camera's video stream



The camera list is expanded and displayed on the Live View page.

.Click “All” to display videos in the 32-video mode (NVR-3250)

.Click on a “Group” (ex. Group 1) to display videos from cameras under that group in quad view.

.Click on any camera to display video in single-view mode

4.2 Retrieve camera's status

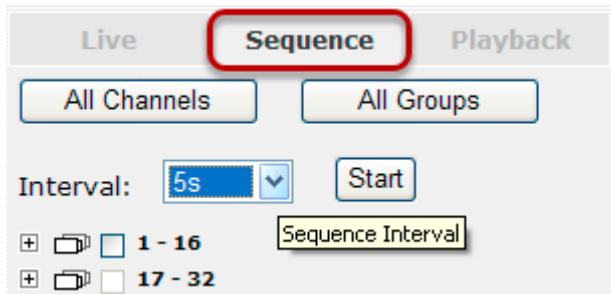
The camera list can show each camera's current status. Each status is represented with different colors and their meanings are explained on the left.

	Camera is connected
	Camera is NOT connected
	Camera is current performing recording

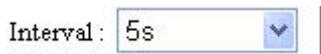
4.3 Perform Sequence Viewing

Sequence view is a function that allows you to view multiple video streams from certain cameras in sequence automatically with having to select them one by one.

To perform sequence view, select “Sequence” from the upper-left hand corner. Then select one or more camera(s) or camera group(s) for sequence viewing



Then select dwell interval from the drop-down menu



Finally click “Start” to start sequence viewing

Click “All Channels” to quickly select all available channels and start sequence view in single-view mode.

Click “All Groups” to quickly select all available groups and start sequence view in quad-view mode.

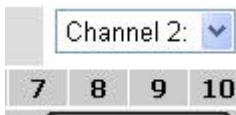
Or simply select the desired channels and press “Start” to start sequence view.

4.4 PTZ Control

PTZ control provides functions to pan, tilt, and zoom a PTZ camera as well as the ability to adjust camera focus and iris.



Camera(s) that are currently being selected for live viewing will be listed in the PTZ drop-down menu. Simply select a camera then use the PTZ control panel to control the camera.



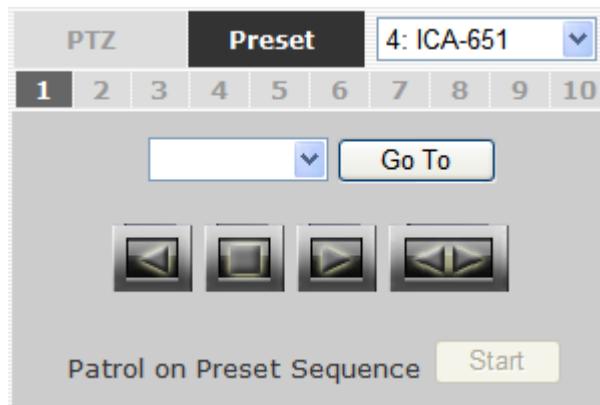
The bar shown below allows you to control the pan/tilt speed.



4.5 Perform PTZ Preset Viewing

There are three functions provided in the “Preset” section:

- Perform preset point viewing of a particular camera.
- Auto pan a particular camera.
- Perform preset point sequence viewing.



Preset Point Viewing

Start by selecting a PTZ camera from the drop-down list:



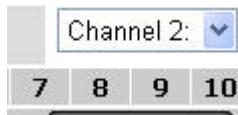
It's available PTZ preset points will be listed in the drop-down list shown below:



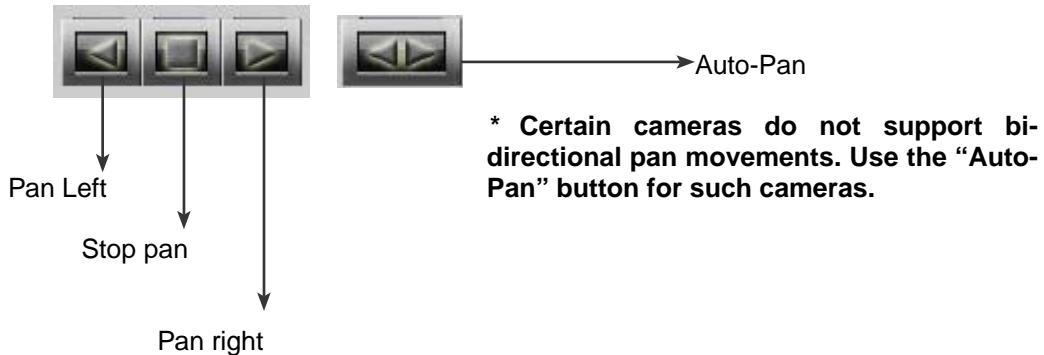
Select a preset position from the drop-down list and click “Go to” to move the live view to that position.

Auto Pan Viewing

Start by selecting a PTZ camera from the drop-down list:



Use the Auto-Pan control buttons to pan right, left and stop auto pan.



Preset Point Sequence Viewing

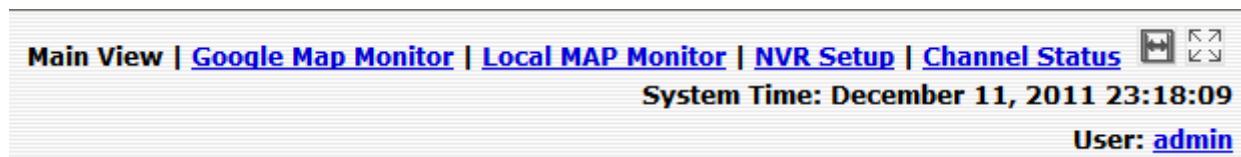
This function allows you to view multiple preset points' videos of a camera without having to select them one by one. Once you have defined the prefer preset points in "**Camera Configuration**" => "**PTZ Preset Sequence**" under the "**Setup**" menu, click "Start" here and the recorder will begin to display videos from those preset points in sequence automatically until you click "Stop".

4.6 Live Video Control Buttons

Each live video window comes with control buttons with functions described below:



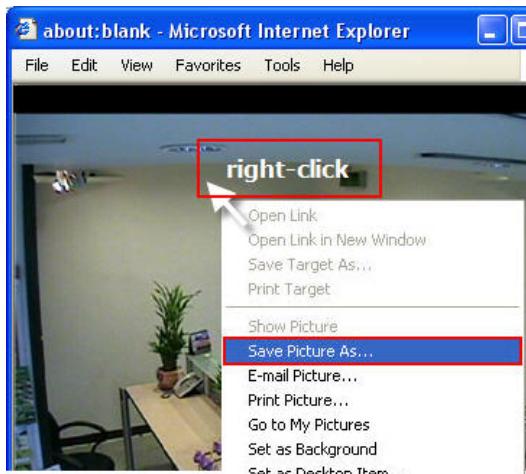
	Take a snapshot of a live video.
	Turn on/off audio of a live video.
	Start/stop recording of a live video (manual recording)
	Audio post function. (Available if the camera support this function)



	Full screen view of a live video
	Display video in its original ratio

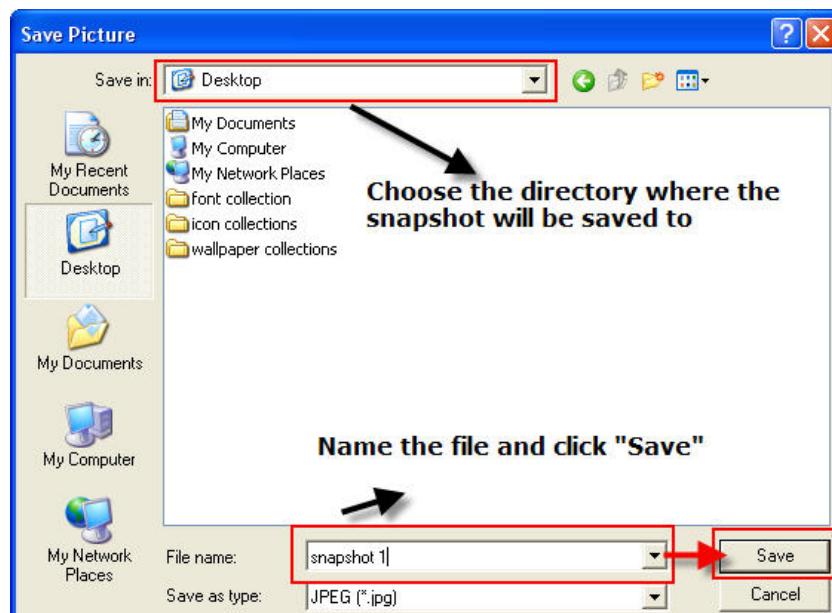
Take a snapshot of a live video

To take a snapshot of a live video, click the  button and the snapshot of the video will be displayed in a pop up window shown like below.



Right-click anywhere on the image and select “Save Image as” from the pull-down menu.

In the pop up dialog, name the image file and choose which directory the image will be saved to and click “Save”.



Full Screen View of a Live Video

To view a video in full screen, click the  button. To exit full screen video, double-click anywhere on the video.

Turn On/Off Audio of a Live Video

You can retrieve audio from a particular camera. Simply click the  button to do so.

The button will show in different color once the audio is turned on.  Click on it again to turn off audio.

 You may only turn on audio once channel at a time

Start/Stop Recording of a Live Video

You can manually start or stop recording of a live video by using the  button.

The button will show in different color once the recording is started manually.  Click on it again to stop recording.

Audio post

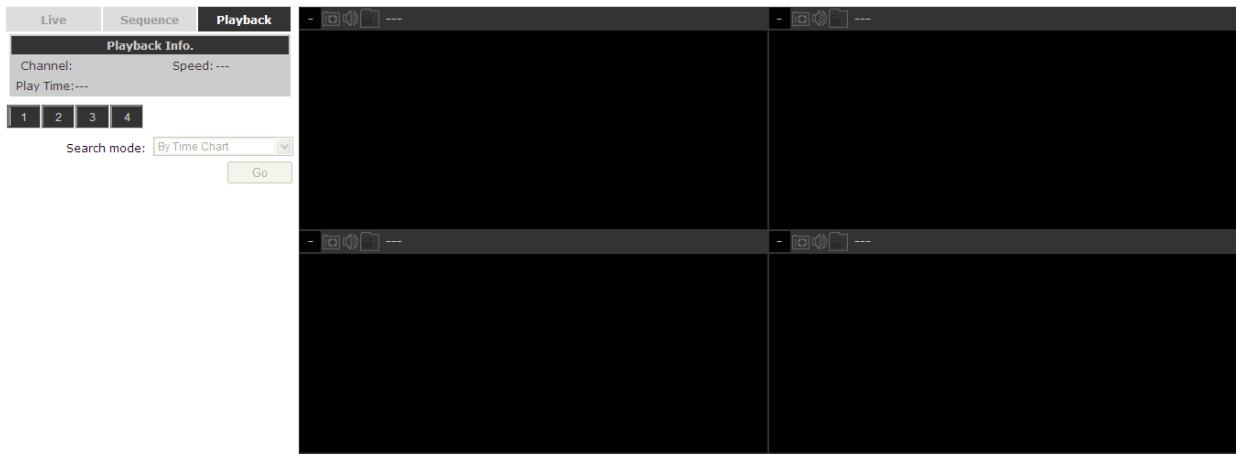
This function allows user to speak from a PC through a microphone and the audio can be played at the camera side if it has a speaker connected to it.

4.7 Change Web UI Display Language

You can change the web UI display language from the current login username link located at the upper-right hand corner. Click on the link opens up a new window which displays detail information about the user as well as a drop-down menu which lets you change the display language.



5. Playback



Playback is a function that allows you to play one or more videos that were previously recorded by a chosen recording method or due to an event trigger. The NVR offers synchronized playback from up to 4 channels and various types of search methods are provided to help you find the footage you need quickly.

You can turn on or off the audio of a recorded video at your choice if audio was also recorded during the recording of the video.

Playback video can be viewed in full screen and snapshots can be taken and saved during a video playback.

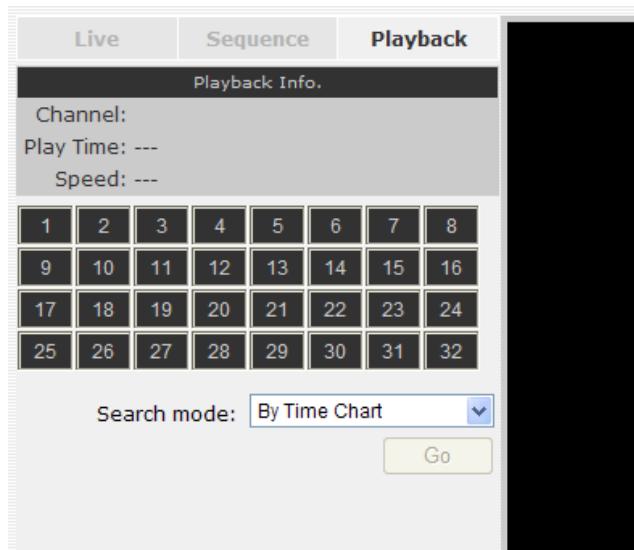
5.1 Methods to Search Playback Videos

The NVR offers three methods to quickly help users find videos that were previously recorded:

Search by time	Specify a time range and search videos recorded within that range.
Search by event	Find videos that were recorded due to event triggers
Most Recent Events	Displays the most recent 15 events
Play by start time	Enter a specific time a video was recorded to start playing back the video

Search by time chart

Start by selecting which channel(s) you would like to perform a search on:



Selected channels will be marked in red



Select “Search by time chart” from the “Search Method” drop-down list and click “Go” to start the search:



Results will then be displayed in a new dialog with a "Month/Channel" table and boxes marked in dark gray represent videos found in those dates. (* Videos from other cameras that are recorded on the same date will also be displayed)

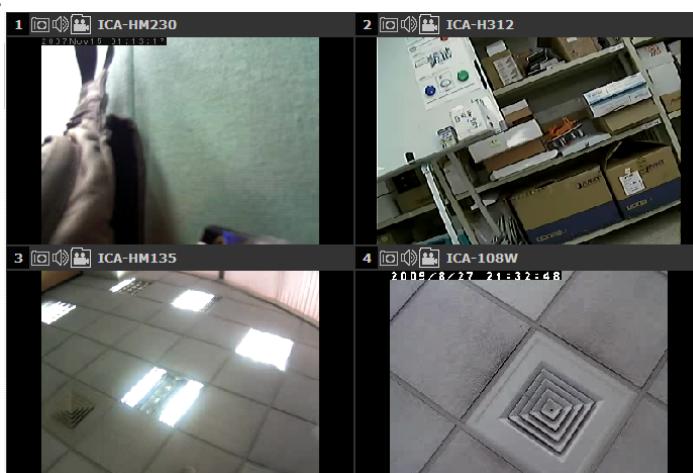
Year:	2011	Month:	12
2011	1	---	---
12/01			
12/02			
12/03			
12/04			
12/05			
12/06			
12/07			
12/08			
12/09			
12/10			
12/11			2011/12/05
12/12			
12/13			
12/14			
12/15			
12/16			
12/17			
12/18			
12/19			
12/20			
12/21			

Clicking on a cell box marked with gray will take you to the "day" view of the selected month. Repeating the same step will eventually take you to the "second" view (5sec per cell box). Right-click anywhere or the "Back" button on the table will take you back to the previous view.

Click on the play button at anytime will start playing videos from the beginning of the current time view (ex. if the table is in the "month" view, click play will start playing from the first available clip of that month)

Year:	2011	Month:	12
011/12/09	1	---	---
00:00:00			
01:00:00			
02:00:00			
03:00:00			
04:00:00			
05:00:00			
06:00:00			
07:00:00			
08:00:00			
09:00:00			
10:00:00			
11:00:00			
12:00:00			
13:00:00			
14:00:00			
15:00:00			
16:00:00			
17:00:00			
18:00:00			
19:00:00			
20:00:00			
21:00:00			
22:00:00			
23:00:00			

Click on the cell box again will start playing back the videos if you have reached the end of search results:



Videos found from other cameras that were recorded at the same time will also be played.

Search by event

Start by selecting which channel(s) you would like to perform a search on.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32

Search mode: **By Event**

Select “Search by event” from the “Search Method” drop-down list and click “Go” to start the search.

Results will then be listed like what is shown below (displays the oldest record top down). Click on a particular result to start the playback.

Live Sequence Playback

Playback Info.

Channel: **1** 2 3 4 Speed: ---

Play Time:---

CH2 MD: 2009/06/17 15:05:52
CH3 MD: 2009/06/17 15:06:46
CH4 MD: 2009/06/17 15:19:33
CH4 MD: 2009/06/17 15:19:47
CH4 MD: 2009/06/17 15:22:31
CH4 MD: 2009/06/17 15:23:08
CH4 MD: 2009/06/17 15:23:54
CH4 MD: 2009/06/17 15:24:16
CH4 MD: 2009/06/17 15:24:27
CH4 MD: 2009/06/17 15:24:48
CH4 MD: 2009/06/17 15:24:58
CH4 MD: 2009/06/17 15:25:46
CH4 MD: 2009/06/17 15:26:35
CH4 MD: 2009/06/17 15:26:52
CH4 MD: 2009/06/17 15:27:02
CH4 MD: 2009/06/17 15:27:22

<1 2 >

Next Search

June 17, 2009 ▾ 14: 57: 57 ▾
Max. result: 30

Search Back to Top

* You can click “Next Search” to display the next 15 results.

You may also specify a new start time to search and display results from then on. You can restrict the number of results to be displayed at once (max. 30) and perform the search again.

Live Sequence Playback

Playback Info.

Channel: **1** 2 3 4 Speed: ---

Play Time:---

CH2 MD: 2009/06/17 15:05:52
CH3 MD: 2009/06/17 15:06:46
CH4 MD: 2009/06/17 15:19:33
CH4 MD: 2009/06/17 15:19:47
CH4 MD: 2009/06/17 15:22:31
CH4 MD: 2009/06/17 15:23:08
CH4 MD: 2009/06/17 15:23:54
CH4 MD: 2009/06/17 15:24:16
CH4 MD: 2009/06/17 15:24:27
CH4 MD: 2009/06/17 15:24:48
CH4 MD: 2009/06/17 15:24:58
CH4 MD: 2009/06/17 15:25:46
CH4 MD: 2009/06/17 15:26:35
CH4 MD: 2009/06/17 15:26:52
CH4 MD: 2009/06/17 15:27:02
CH4 MD: 2009/06/17 15:27:22

<1 2 >

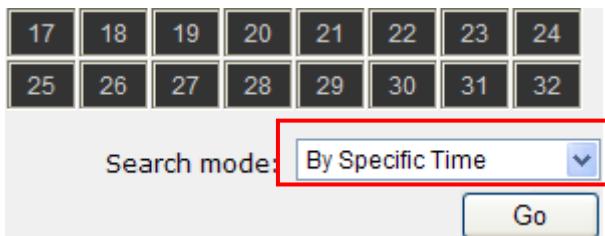
Next Search

June 17, 2009 ▾ 14: 57: 57 ▾
Max. result: 30

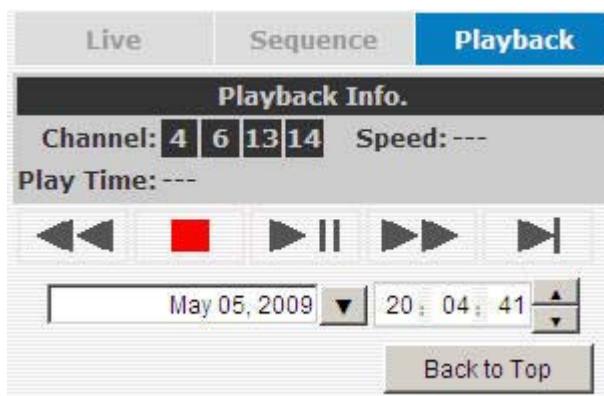
Search Back to Top

Play by specific time

If you know when a recording was taken place, you may choose the "Play by start time" from the "Search Method" drop-down list.



Then you will be prompted to enter a specific time and date for the recorded video.



Use the button to select month, date, and year.

Search by event (Most Recent)

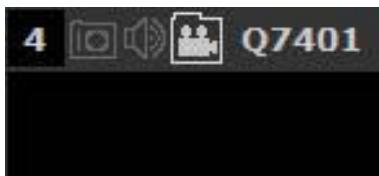
This function quickly displays the most recent event recordings from the selected channels, displaying the most recent result top down. You may click "Update" to update the list to display the most recent result.

CH2 DI: 2009/06/17 17:04:44
CH2 DI: 2009/06/17 17:04:36
CH2 MD: 2009/06/17 16:43:39
CH2 MD: 2009/06/17 16:43:32
CH4 MD: 2009/06/17 16:43:22
CH2 MD: 2009/06/17 16:37:08
CH2 MD: 2009/06/17 16:36:59
CH2 MD: 2009/06/17 16:36:52
CH4 MD: 2009/06/17 16:34:21
CH4 MD: 2009/06/17 16:04:39
CH4 MD: 2009/06/17 16:04:20
CH4 MD: 2009/06/17 16:04:06
CH4 MD: 2009/06/17 16:02:58
CH4 MD: 2009/06/17 16:02:36
CH4 MD: 2009/06/17 16:01:50

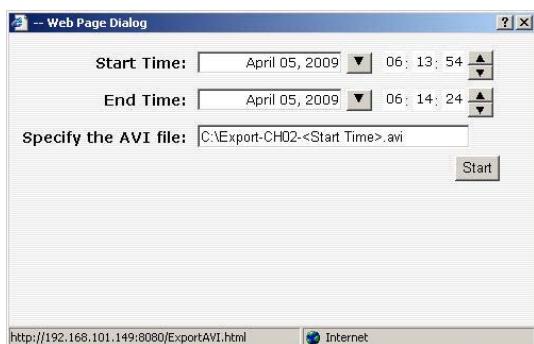
5.2 Export Playback Videos to AVI Files

User can export the recorded playback videos stored on NVR-3250 to a local computer and save them in AVI file format. The files can then be played on the PC by a 3rd party media player such as VLC player or Windows Media player.

Once you locate the recorded videos with steps described in the previous section, hit the “Export AVI” button on a video window of the video you wish to export.



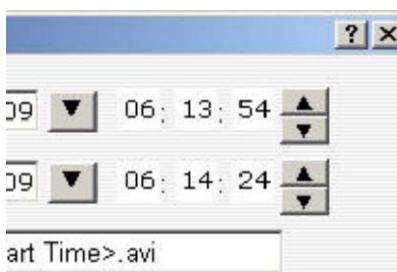
A new dialog will pop up and allows you to specify the time frame (or length) of the video you wish to export.



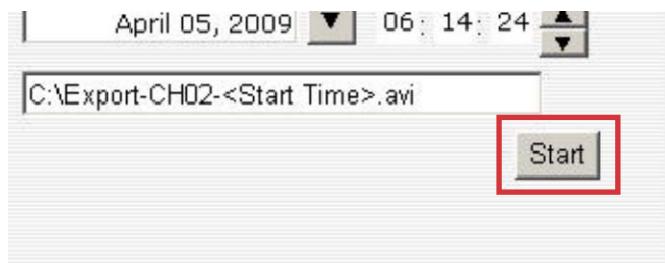
Click the button to pull down the calendar to help you specify the month, date and the year



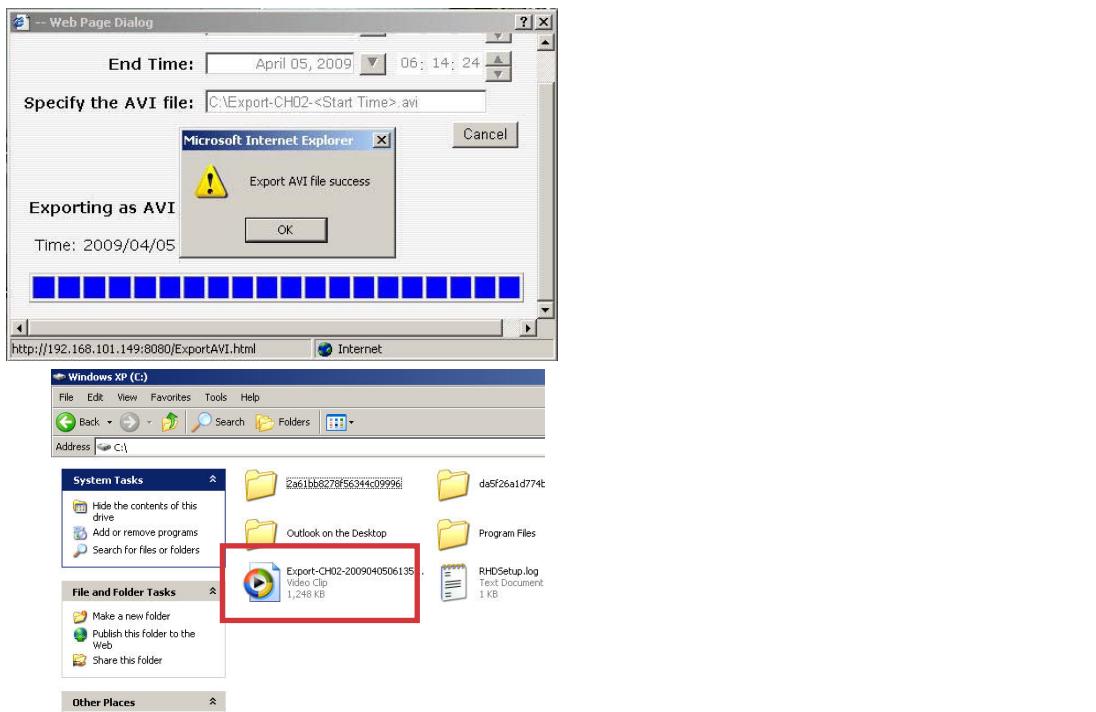
Specify the starting and ending hours of the video by entering numbers in the text boxes.



Hit the “Start” button to start exporting. The file will be automatically named and saved under the C:\ partition.



You will be notified once the process is completed successfully



The exported AVI file will be saved under the C partition.

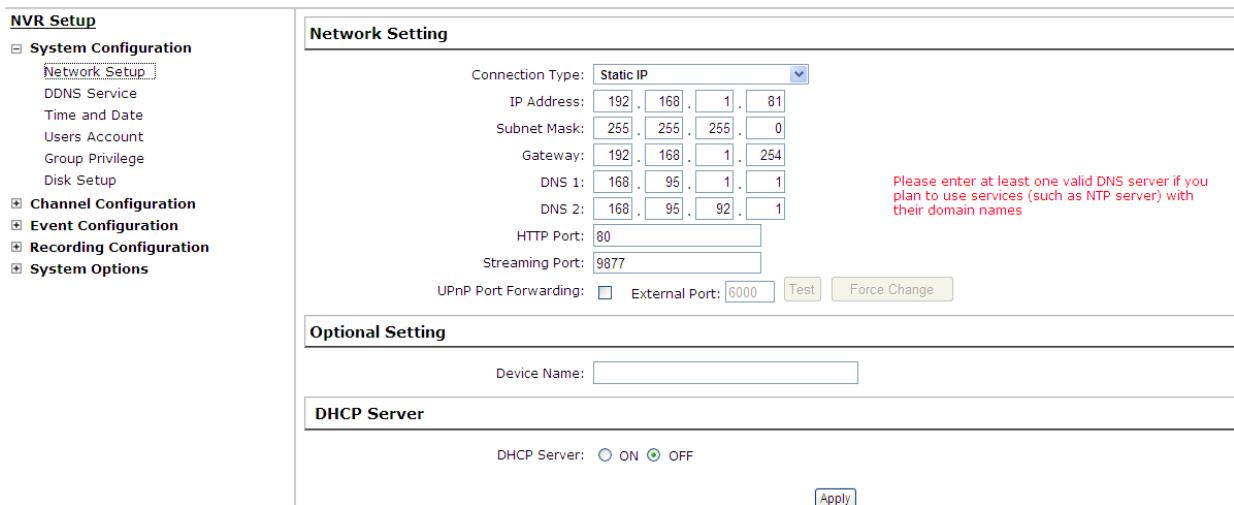
* Ffdshow is required in order to play the exported AVI file with Windows Media Player. You can get it at "<http://sourceforge.net/projects/ffd-show-tryout/>" to download the "ffdshow_beta6_rev2527_20081219.exe".

6. System Setup

6.1 System Configurations

The “System Configurations” page provides users options to setup the device quickly and properly. After properly configuring all settings in all the sub-pages, users should expect a fully working network video recorder that is ready to manage cameras on the network. We will start by configuring its network settings to make sure it works correctly in your network. Next, we will help you adjust the system time so videos will be recorder with correct timestamp. To better secure the system for unwanted disturbance, we will guide you on setting up user’s account and privileges to prevent settings gets altered by users other than the system administrator. Lastly, we will tell you what you should expect after installing a hard disk and how to prepare the hard disk for the video recording.

6.1.1 Network Settings



Network Setting

Connection Type: **Static IP**

IP Address: 192.168.1.81

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.254

DNS 1: 168.95.1.1

DNS 2: 168.95.92.1

HTTP Port: 80

Streaming Port: 9877

UPnP Port Forwarding: External Port: 6000

Optional Setting

Device Name:

DHCP Server

DHCP Server: ON OFF

You need to adjust settings in this page for the device to work properly in your network. It is critical that settings here are configured correctly based on your network configurations so that the recorder can be administered through the local area network and cameras can be connected from it.

By default, the recorder is set to obtain IP address from DHCP server, it should be sufficient in most network environments, and most likely you should not need to alter anything in this page. To locate the recorder, simply use the IP Utility with steps described in page 13.

If you wish to set the recorder to use a static IP address in your local area network,

1. Choose “Static IP” from the “Connection Type” drop-down menu
2. Enter the IP address, subnet mask, default gateway address and DNS server address for the recorder
3. Enable “DHCP Server” under “DHCP Server” if you wish to use the recorder as a DHCP server, or leave it disabled if there is already a DHCP server in the network .

DHCP Server

DHCP Server: ON OFF

Max. DHCP Client: (Max. 30 clients)

4. Click Apply for the settings to take effect.

 The recorder can detect the presence of a DHCP server upon startup. It sets itself to use static IP address if there is no DHCP server currently presented in the network. Its **DHCP server** function is also turned on at the same time to assign IP addresses to cameras that are later connected to the network. You can manually turn off the DHCP server function if you wish to use a separate DHCP server.

 Change the recorder's IP address would require the recorder to restart.
Restart the device under "system Options" >> "Maintenance" for the settings to take effect.

6.1.2 DDNS Server

The screenshot shows the 'NVR Setup' interface with the 'System Configuration' tab selected. Under 'System Configuration', the 'DDNS Service' option is highlighted. The main content area is titled 'Dynamic DNS Service' and contains the following fields:

- Enable DDNS Service
- Server Address:
- Domain Name:
- User Name:
- Password:

Below these fields, the text 'Connection Status: Disconnected' is displayed. At the bottom of the page are two buttons: 'Check DDNS Status' and 'Apply'.

DNS, which stands for “Dynamic DNS”, is a method, protocol, or network service that provides the capability for a networked device, such as a router or computer system (in this case, the NVR) using the Internet Protocol Suite, to notify a domain name server to change, in real time, the active DNS configuration of its configured hostnames, addresses or other information stored in DNS.

A popular application of dynamic DNS is to provide a residential user’s Internet gateway that has a variable, often changing, IP address with a well known hostname resolvable through standard DNS queries.

This is useful if the NVR is placed on the Internet with a dynamic public IP, which once the DDNS is properly setup, users can access the NVR remotely with the DDNS domain name without worrying if the IP has changed or not.

*Please make sure a valid DNS server has been configured under the “Network Setting” page in order for this function to work properly.

*The NVR currently only works with free DDNS service provided by “DynDNS”. For more information, please go to www.dyndns.com

*If the NVR is placed behind a router or Internet gateway, please make sure port forwarding for port 80 is configured on the router or the gateway in order for the DDNS function to properly register with the service. It’s often suggested to use the DDNS function in the router / gateway for such case instead.

*Once you have the DDNS function successfully up and running, please DO NOT forget to configure port forwarding for the NVR web port (default 80) and the streaming port (default 9877) in the router/gateway for remote viewing. You can then type in <http://yourddnsdomain> in the browser to access the NVR remotely for live view.

1. In order to properly configure the DDNS service function, please register a free DDNS domain name and account from DynDNS first. Go to <http://dyn.com/dns/dyndns-free/> from the browser to do so.

The screenshot shows the DynDNS Free landing page. The main heading is "Free DNS When You Need It". Below it, there's a section titled "Free service" which says "Get two domains in 18 available hostnames like DynDNS.org, DynDNS-home.com and more." A "GET IT NOW" button is located in the center of the page, which is also highlighted with a red box.

2. Fill in the necessary fields as illustrated above

The screenshot shows the "Add New Hostname" form. Several fields are highlighted with red boxes and arrows pointing to instructions:

- Hostname:** "myddns" - "dyndns.org" (with a dropdown arrow) - *Enter a desired hostname here*
- Wildcard Status:** "Disabled" - *Want Wildcard support?* - *Select a desired sub-domain from the drop-down menu*
- Service Type:** "Host with IP address" (radio button selected) - *Host with IP address*
- IP Address:** "60.250.139.170" - *Your current location's IP address is 60.250.139.170* - *TTL value is 60 seconds. Edit TTL.* - *Click here to automatically fill in the current public IP in the "IP Address field"*
- Mail Routing:** "Yes, let me configure Email routing." (checkbox)
- What do you want to use this host for?** "Work From Home Office or VPN" - *Pick one or more options here (any is fine)*
- Work From Home Office or VPN:** "vpn", "remote file access", "remote desktop", "mail server", "web server", "chat server", "ftp backup", "ssh", "database", "voip" (checkboxes)
- Hosting and Design For Web Sites and Blogs:** "blog", "gallery", "wiki", "portfolio", "ecommerce", "web page" (checkboxes)
- Remote Access For Devices:** "dvr", "webcam", "data storage", "cctv", "printer", "alarm and security", "thermostat", "weather station", "game server", "home automation" (checkboxes)
- Add To Cart** button - *Click to go to the next step*

3. The page will check whether the hostname you entered has been used by another user or not as soon as you click the "Add to Cart" button. If you see below message, simply enter a different and click "Add to Cart" again

Hostname: myddns · dyndns.org

This hostname already exists. It may be in use by another customer.

4. Once you get to the next page, fill in the necessary fields as illustrated above
[Create account or log in to continue](#)

Create an username and a password here. This will be used in the NVR's configuration. Enter a valid email address as well.

Username:

Password:

Confirm password:

Email:

Confirm email:

Subscribe to: DynDNS.com newsletter
(1 or 2 per month)
 Dyn Inc. press releases
 Remove HTML formatting from email

Already Registered?

Username:

Password:

[Log in](#)

[Forgot your password?](#)



Security Image:



Enter the numbers from the above image:

I agree with the [acceptable use policy \(AUP\)](#) and [privacy policy](#).

[Create Account](#)

Enter the security code

Check to agree the license

Click to finish creating the account

5. Go back to the NVR's DDNS service configuration page under "Setup" >> "System Configuration" >> "DDNS Service". Fill in the domain name you picked during the registration in the "Domain Name" field and the username/password you created in the "User ID" and "Password" field and click "Apply" to finish

Dynamic DNS Service

Enable DDNS Service

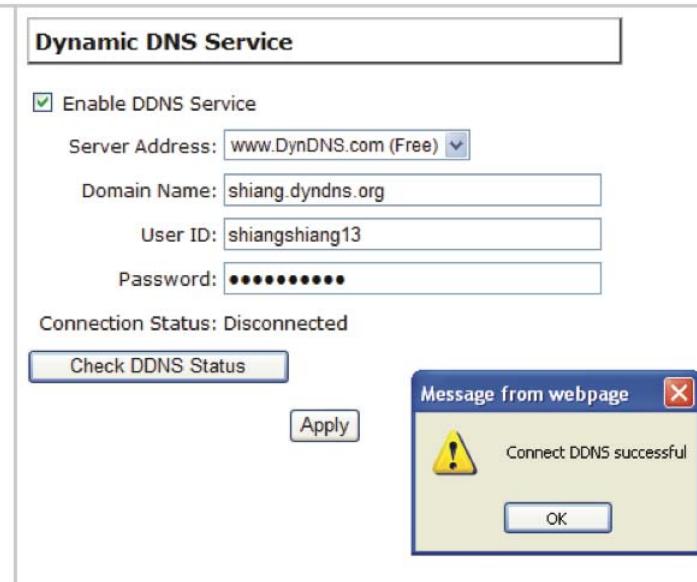
Server Address:

Domain Name:

User ID:

Password:

6. You can click the "Check DDNS Status" button to check the DynDNS service status. If you are getting a "Disconnected" message, it means that DDNS service server is down or the NVR is not connected to the Internet. If everything is ok normally, you should be prompted with a success message



6.1.3 Time and Date

NVR Setup

- System Configuration**
 - Network Setup
 - Device Network Setting
 - DHCP Server
 - DDNS Service
 - Time and Date**
 - Users Account
 - Group Privilege
 - Disk Setup
- Channel Configuration**
- Event Configuration**
- Recording Configuration**
- System Options**

Time and Date Setting

Time Zone: **GMT+08 (Beijing, Hong Kong, Shanghai, Taipei)** Summer time

Manual

Year: Month: Date:

Hour: Minute: Second:

Sync with NTP Server

NTP Server:

Update Interval:

Last sync: December 13, 2011 11:07:22. Status: Failed

Sync with PC December 13, 2011 13:06:12

Set the time and date by selecting the time zone according to your location. It is imperative that you set the recorder's time correctly to avoid the following errors:

- Incorrect display time for playback videos.
- Inconsistent display time of event logs and when they actually occur.

After selecting the time zone, choose an option below to set the recorder time.

Manual	Use the drop-down list and configure the time manually
Sync with NTP server	enter the hostname or IP address of a valid NTP server And set how often the recorder should synchronize the time with the recorder by using the "Update interval" drop-down menu.
Sync with PC	Check this option to synchronize the recorder time with the PC that you are currently using to access the recorder.

6.1.4 User Account

The recorder can be accessed by multiple users simultaneously. You can add, remove, and edit users by using options provided in this page to keep user information organized. Each recorder comes with a built-in “admin” account with password “admin”. It’s highly recommended to change the password upon your initial login.

To change the password of the “admin” account:

1. Click and highlight the “admin” account in the account list and click “Edit”.
2. Its information should be displayed in “User Account Information”.
3. Enter a new password in the “Password” field and enter it again in “Confirm Password”.

To add a new user:

1. Enter a username and password in “User Account Information”. All other fields are optional for Your own reference.
2. Select a group from the “Group” drop-down menu to assign the new user to a particular group. Enter a short description for the account if you wish.
3. Click “Apply” to finish configuration.

Add User

User Name: Only 1-9, 0-9 and _@ are allowed (1)

Password:

Confirm Password:

Company: (Optional)

Department: (Optional)

Telephone: (Optional)

Mobile: (Optional)

E-Mail: (Optional) (2)

Group:

Language: English

Description:

(Optional) (3)

Add

6.1.5 Group Privilege

NVR Setup

- System Configuration**
 - Network Setup
 - DDNS Service
 - Time and Date
 - Users Account
 - Group Privilege**
 - Disk Setup
- Channel Configuration**
- Event Configuration**
- Recording Configuration**
- System Options**

Group Privilege Setting

Group: Change Group Name

Live:

<input checked="" type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH8
<input type="checkbox"/> CH9	<input type="checkbox"/> CH10	<input type="checkbox"/> CH11	<input type="checkbox"/> CH12	<input type="checkbox"/> CH13	<input type="checkbox"/> CH14	<input type="checkbox"/> CH15	<input type="checkbox"/> CH16
<input type="checkbox"/> CH17	<input type="checkbox"/> CH18	<input type="checkbox"/> CH19	<input type="checkbox"/> CH20	<input type="checkbox"/> CH21	<input type="checkbox"/> CH22	<input type="checkbox"/> CH23	<input type="checkbox"/> CH24
<input type="checkbox"/> CH25	<input type="checkbox"/> CH26	<input type="checkbox"/> CH27	<input type="checkbox"/> CH28	<input type="checkbox"/> CH29	<input type="checkbox"/> CH30	<input type="checkbox"/> CH31	<input type="checkbox"/> CH32
<input type="checkbox"/> CH26	<input type="checkbox"/> CH27	<input type="checkbox"/> CH28	<input type="checkbox"/> CH29	<input type="checkbox"/> CH30	<input type="checkbox"/> CH31	<input type="checkbox"/> CH32	<input type="checkbox"/> CH33
<input type="checkbox"/> CH27	<input type="checkbox"/> CH28	<input type="checkbox"/> CH29	<input type="checkbox"/> CH30	<input type="checkbox"/> CH31	<input type="checkbox"/> CH32	<input type="checkbox"/> CH33	<input type="checkbox"/> CH34
<input type="checkbox"/> CH28	<input type="checkbox"/> CH29	<input type="checkbox"/> CH30	<input type="checkbox"/> CH31	<input type="checkbox"/> CH32	<input type="checkbox"/> CH33	<input type="checkbox"/> CH34	<input type="checkbox"/> CH35
<input type="checkbox"/> CH29	<input type="checkbox"/> CH30	<input type="checkbox"/> CH31	<input type="checkbox"/> CH32	<input type="checkbox"/> CH33	<input type="checkbox"/> CH34	<input type="checkbox"/> CH35	<input type="checkbox"/> CH36
<input type="checkbox"/> CH30	<input type="checkbox"/> CH31	<input type="checkbox"/> CH32	<input type="checkbox"/> CH33	<input type="checkbox"/> CH34	<input type="checkbox"/> CH35	<input type="checkbox"/> CH36	<input type="checkbox"/> CH37
<input type="checkbox"/> CH31	<input type="checkbox"/> CH32	<input type="checkbox"/> CH33	<input type="checkbox"/> CH34	<input type="checkbox"/> CH35	<input type="checkbox"/> CH36	<input type="checkbox"/> CH37	<input type="checkbox"/> CH38
<input type="checkbox"/> CH32	<input type="checkbox"/> CH33	<input type="checkbox"/> CH34	<input type="checkbox"/> CH35	<input type="checkbox"/> CH36	<input type="checkbox"/> CH37	<input type="checkbox"/> CH38	<input type="checkbox"/> CH39
<input type="checkbox"/> CH33	<input type="checkbox"/> CH34	<input type="checkbox"/> CH35	<input type="checkbox"/> CH36	<input type="checkbox"/> CH37	<input type="checkbox"/> CH38	<input type="checkbox"/> CH39	<input type="checkbox"/> CH40
<input type="checkbox"/> CH34	<input type="checkbox"/> CH35	<input type="checkbox"/> CH36	<input type="checkbox"/> CH37	<input type="checkbox"/> CH38	<input type="checkbox"/> CH39	<input type="checkbox"/> CH40	<input type="checkbox"/> CH41
<input type="checkbox"/> CH35	<input type="checkbox"/> CH36	<input type="checkbox"/> CH37	<input type="checkbox"/> CH38	<input type="checkbox"/> CH39	<input type="checkbox"/> CH40	<input type="checkbox"/> CH41	<input type="checkbox"/> CH42
<input type="checkbox"/> CH36	<input type="checkbox"/> CH37	<input type="checkbox"/> CH38	<input type="checkbox"/> CH39	<input type="checkbox"/> CH40	<input type="checkbox"/> CH41	<input type="checkbox"/> CH42	<input type="checkbox"/> CH43
<input type="checkbox"/> CH37	<input type="checkbox"/> CH38	<input type="checkbox"/> CH39	<input type="checkbox"/> CH40	<input type="checkbox"/> CH41	<input type="checkbox"/> CH42	<input type="checkbox"/> CH43	<input type="checkbox"/> CH44
<input type="checkbox"/> CH38	<input type="checkbox"/> CH39	<input type="checkbox"/> CH40	<input type="checkbox"/> CH41	<input type="checkbox"/> CH42	<input type="checkbox"/> CH43	<input type="checkbox"/> CH44	<input type="checkbox"/> CH45
<input type="checkbox"/> CH39	<input type="checkbox"/> CH40	<input type="checkbox"/> CH41	<input type="checkbox"/> CH42	<input type="checkbox"/> CH43	<input type="checkbox"/> CH44	<input type="checkbox"/> CH45	<input type="checkbox"/> CH46
<input type="checkbox"/> CH40	<input type="checkbox"/> CH41	<input type="checkbox"/> CH42	<input type="checkbox"/> CH43	<input type="checkbox"/> CH44	<input type="checkbox"/> CH45	<input type="checkbox"/> CH46	<input type="checkbox"/> CH47
<input type="checkbox"/> CH41	<input type="checkbox"/> CH42	<input type="checkbox"/> CH43	<input type="checkbox"/> CH44	<input type="checkbox"/> CH45	<input type="checkbox"/> CH46	<input type="checkbox"/> CH47	<input type="checkbox"/> CH48
<input type="checkbox"/> CH42	<input type="checkbox"/> CH43	<input type="checkbox"/> CH44	<input type="checkbox"/> CH45	<input type="checkbox"/> CH46	<input type="checkbox"/> CH47	<input type="checkbox"/> CH48	<input type="checkbox"/> CH49
<input type="checkbox"/> CH43	<input type="checkbox"/> CH44	<input type="checkbox"/> CH45	<input type="checkbox"/> CH46	<input type="checkbox"/> CH47	<input type="checkbox"/> CH48	<input type="checkbox"/> CH49	<input type="checkbox"/> CH50
<input type="checkbox"/> CH44	<input type="checkbox"/> CH45	<input type="checkbox"/> CH46	<input type="checkbox"/> CH47	<input type="checkbox"/> CH48	<input type="checkbox"/> CH49	<input type="checkbox"/> CH50	<input type="checkbox"/> CH51
<input type="checkbox"/> CH45	<input type="checkbox"/> CH46	<input type="checkbox"/> CH47	<input type="checkbox"/> CH48	<input type="checkbox"/> CH49	<input type="checkbox"/> CH50	<input type="checkbox"/> CH51	<input type="checkbox"/> CH52
<input type="checkbox"/> CH46	<input type="checkbox"/> CH47	<input type="checkbox"/> CH48	<input type="checkbox"/> CH49	<input type="checkbox"/> CH50	<input type="checkbox"/> CH51	<input type="checkbox"/> CH52	<input type="checkbox"/> CH53
<input type="checkbox"/> CH47	<input type="checkbox"/> CH48	<input type="checkbox"/> CH49	<input type="checkbox"/> CH50	<input type="checkbox"/> CH51	<input type="checkbox"/> CH52	<input type="checkbox"/> CH53	<input type="checkbox"/> CH54
<input type="checkbox"/> CH48	<input type="checkbox"/> CH49	<input type="checkbox"/> CH50	<input type="checkbox"/> CH51	<input type="checkbox"/> CH52	<input type="checkbox"/> CH53	<input type="checkbox"/> CH54	<input type="checkbox"/> CH55
<input type="checkbox"/> CH49	<input type="checkbox"/> CH50	<input type="checkbox"/> CH51	<input type="checkbox"/> CH52	<input type="checkbox"/> CH53	<input type="checkbox"/> CH54	<input type="checkbox"/> CH55	<input type="checkbox"/> CH56
<input type="checkbox"/> CH50	<input type="checkbox"/> CH51	<input type="checkbox"/> CH52	<input type="checkbox"/> CH53	<input type="checkbox"/> CH54	<input type="checkbox"/> CH55	<input type="checkbox"/> CH56	<input type="checkbox"/> CH57
<input type="checkbox"/> CH51	<input type="checkbox"/> CH52	<input type="checkbox"/> CH53	<input type="checkbox"/> CH54	<input type="checkbox"/> CH55	<input type="checkbox"/> CH56	<input type="checkbox"/> CH57	<input type="checkbox"/> CH58
<input type="checkbox"/> CH52	<input type="checkbox"/> CH53	<input type="checkbox"/> CH54	<input type="checkbox"/> CH55	<input type="checkbox"/> CH56	<input type="checkbox"/> CH57	<input type="checkbox"/> CH58	<input type="checkbox"/> CH59
<input type="checkbox"/> CH53	<input type="checkbox"/> CH54	<input type="checkbox"/> CH55	<input type="checkbox"/> CH56	<input type="checkbox"/> CH57	<input type="checkbox"/> CH58	<input type="checkbox"/> CH59	<input type="checkbox"/> CH60
<input type="checkbox"/> CH54	<input type="checkbox"/> CH55	<input type="checkbox"/> CH56	<input type="checkbox"/> CH57	<input type="checkbox"/> CH58	<input type="checkbox"/> CH59	<input type="checkbox"/> CH60	<input type="checkbox"/> CH61
<input type="checkbox"/> CH55	<input type="checkbox"/> CH56	<input type="checkbox"/> CH57	<input type="checkbox"/> CH58	<input type="checkbox"/> CH59	<input type="checkbox"/> CH60	<input type="checkbox"/> CH61	<input type="checkbox"/> CH62
<input type="checkbox"/> CH56	<input type="checkbox"/> CH57	<input type="checkbox"/> CH58	<input type="checkbox"/> CH59	<input type="checkbox"/> CH60	<input type="checkbox"/> CH61	<input type="checkbox"/> CH62	<input type="checkbox"/> CH63
<input type="checkbox"/> CH57	<input type="checkbox"/> CH58	<input type="checkbox"/> CH59	<input type="checkbox"/> CH60	<input type="checkbox"/> CH61	<input type="checkbox"/> CH62	<input type="checkbox"/> CH63	<input type="checkbox"/> CH64
<input type="checkbox"/> CH58	<input type="checkbox"/> CH59	<input type="checkbox"/> CH60	<input type="checkbox"/> CH61	<input type="checkbox"/> CH62	<input type="checkbox"/> CH63	<input type="checkbox"/> CH64	<input type="checkbox"/> CH65
<input type="checkbox"/> CH59	<input type="checkbox"/> CH60	<input type="checkbox"/> CH61	<input type="checkbox"/> CH62	<input type="checkbox"/> CH63	<input type="checkbox"/> CH64	<input type="checkbox"/> CH65	<input type="checkbox"/> CH66
<input type="checkbox"/> CH60	<input type="checkbox"/> CH61	<input type="checkbox"/> CH62	<input type="checkbox"/> CH63	<input type="checkbox"/> CH64	<input type="checkbox"/> CH65	<input type="checkbox"/> CH66	<input type="checkbox"/> CH67
<input type="checkbox"/> CH61	<input type="checkbox"/> CH62	<input type="checkbox"/> CH63	<input type="checkbox"/> CH64	<input type="checkbox"/> CH65	<input type="checkbox"/> CH66	<input type="checkbox"/> CH67	<input type="checkbox"/> CH68
<input type="checkbox"/> CH62	<input type="checkbox"/> CH63	<input type="checkbox"/> CH64	<input type="checkbox"/> CH65	<input type="checkbox"/> CH66	<input type="checkbox"/> CH67	<input type="checkbox"/> CH68	<input type="checkbox"/> CH69
<input type="checkbox"/> CH63	<input type="checkbox"/> CH64	<input type="checkbox"/> CH65	<input type="checkbox"/> CH66	<input type="checkbox"/> CH67	<input type="checkbox"/> CH68	<input type="checkbox"/> CH69	<input type="checkbox"/> CH70
<input type="checkbox"/> CH64	<input type="checkbox"/> CH65	<input type="checkbox"/> CH66	<input type="checkbox"/> CH67	<input type="checkbox"/> CH68	<input type="checkbox"/> CH69	<input type="checkbox"/> CH70	<input type="checkbox"/> CH71
<input type="checkbox"/> CH65	<input type="checkbox"/> CH66	<input type="checkbox"/> CH67	<input type="checkbox"/> CH68	<input type="checkbox"/> CH69	<input type="checkbox"/> CH70	<input type="checkbox"/> CH71	<input type="checkbox"/> CH72
<input type="checkbox"/> CH66	<input type="checkbox"/> CH67	<input type="checkbox"/> CH68	<input type="checkbox"/> CH69	<input type="checkbox"/> CH70	<input type="checkbox"/> CH71	<input type="checkbox"/> CH72	<input type="checkbox"/> CH73
<input type="checkbox"/> CH67	<input type="checkbox"/> CH68	<input type="checkbox"/> CH69	<input type="checkbox"/> CH70	<input type="checkbox"/> CH71	<input type="checkbox"/> CH72	<input type="checkbox"/> CH73	<input type="checkbox"/> CH74
<input type="checkbox"/> CH68	<input type="checkbox"/> CH69	<input type="checkbox"/> CH70	<input type="checkbox"/> CH71	<input type="checkbox"/> CH72	<input type="checkbox"/> CH73	<input type="checkbox"/> CH74	<input type="checkbox"/> CH75
<input type="checkbox"/> CH69	<input type="checkbox"/> CH70	<input type="checkbox"/> CH71	<input type="checkbox"/> CH72	<input type="checkbox"/> CH73	<input type="checkbox"/> CH74	<input type="checkbox"/> CH75	<input type="checkbox"/> CH76
<input type="checkbox"/> CH70	<input type="checkbox"/> CH71	<input type="checkbox"/> CH72	<input type="checkbox"/> CH73	<input type="checkbox"/> CH74	<input type="checkbox"/> CH75	<input type="checkbox"/> CH76	<input type="checkbox"/> CH77
<input type="checkbox"/> CH71	<input type="checkbox"/> CH72	<input type="checkbox"/> CH73	<input type="checkbox"/> CH74	<input type="checkbox"/> CH75	<input type="checkbox"/> CH76	<input type="checkbox"/> CH77	<input type="checkbox"/> CH78
<input type="checkbox"/> CH72	<input type="checkbox"/> CH73	<input type="checkbox"/> CH74	<input type="checkbox"/> CH75	<input type="checkbox"/> CH76	<input type="checkbox"/> CH77	<input type="checkbox"/> CH78	<input type="checkbox"/> CH79
<input type="checkbox"/> CH73	<input type="checkbox"/> CH74	<input type="checkbox"/> CH75	<input type="checkbox"/> CH76	<input type="checkbox"/> CH77	<input type="checkbox"/> CH78	<input type="checkbox"/> CH79	<input type="checkbox"/> CH80
<input type="checkbox"/> CH74	<input type="checkbox"/> CH75	<input type="checkbox"/> CH76	<input type="checkbox"/> CH77	<input type="checkbox"/> CH78	<input type="checkbox"/> CH79	<input type="checkbox"/> CH80	<input type="checkbox"/> CH81
<input type="checkbox"/> CH75	<input type="checkbox"/> CH76	<input type="checkbox"/> CH77	<input type="checkbox"/> CH78	<input type="checkbox"/> CH79	<input type="checkbox"/> CH80	<input type="checkbox"/> CH81	<input type="checkbox"/> CH82
<input type="checkbox"/> CH76	<input type="checkbox"/> CH77	<input type="checkbox"/> CH78	<input type="checkbox"/> CH79	<input type="checkbox"/> CH80	<input type="checkbox"/> CH81	<input type="checkbox"/> CH82	<input type="checkbox"/> CH83
<input type="checkbox"/> CH77	<input type="checkbox"/> CH78	<input type="checkbox"/> CH79	<input type="checkbox"/> CH80	<input type="checkbox"/> CH81	<input type="checkbox"/> CH82	<input type="checkbox"/> CH83	<input type="checkbox"/> CH84
<input type="checkbox"/> CH78	<input type="checkbox"/> CH79	<input type="checkbox"/> CH80	<input type="checkbox"/> CH81	<input type="checkbox"/> CH82	<input type="checkbox"/> CH83	<input type="checkbox"/> CH84	<input type="checkbox"/> CH85
<input type="checkbox"/> CH79	<input type="checkbox"/> CH80	<input type="checkbox"/> CH81	<input type="checkbox"/> CH82	<input type="checkbox"/> CH83	<input type="checkbox"/> CH84	<input type="checkbox"/> CH85	<input type="checkbox"/> CH86
<input type="checkbox"/> CH80	<input type="checkbox"/> CH81	<input type="checkbox"/> CH82	<input type="checkbox"/> CH83	<input type="checkbox"/> CH84	<input type="checkbox"/> CH85	<input type="checkbox"/> CH86	<input type="checkbox"/> CH87
<input type="checkbox"/> CH81	<input type="checkbox"/> CH82	<input type="checkbox"/> CH83	<input type="checkbox"/> CH84	<input type="checkbox"/> CH85	<input type="checkbox"/> CH86	<input type="checkbox"/> CH87	<input type="checkbox"/> CH88
<input type="checkbox"/> CH82	<input type="checkbox"/> CH83	<input type="checkbox"/> CH84	<input type="checkbox"/> CH85	<input type="checkbox"/> CH86	<input type="checkbox"/> CH87	<input type="checkbox"/> CH88	<input type="checkbox"/> CH89
<input type="checkbox"/> CH83	<input type="checkbox"/> CH84	<input type="checkbox"/> CH85	<input type="checkbox"/> CH86	<input type="checkbox"/> CH87	<input type="checkbox"/> CH88	<input type="checkbox"/> CH89	<input type="checkbox"/> CH90
<input type="checkbox"/> CH84	<input type="checkbox"/> CH85	<input type="checkbox"/> CH86	<input type="checkbox"/> CH87	<input type="checkbox"/> CH88	<input type="checkbox"/> CH89	<input type="checkbox"/> CH90	<input type="checkbox"/> CH91
<input type="checkbox"/> CH85	<input type="checkbox"/> CH86	<input type="checkbox"/> CH87	<input type="checkbox"/> CH88	<input type="checkbox"/> CH89	<input type="checkbox"/> CH90	<input type="checkbox"/> CH91	<input type="checkbox"/> CH92
<input type="checkbox"/> CH86	<input type="checkbox"/> CH87	<input type="checkbox"/> CH88	<input type="checkbox"/> CH89	<input type="checkbox"/> CH90	<input type="checkbox"/> CH91	<input type="checkbox"/> CH92	<input type="checkbox"/> CH93
<input type="checkbox"/> CH87	<input type="checkbox"/> CH88	<input type="checkbox"/> CH89	<input type="checkbox"/> CH90	<input type="checkbox"/> CH91	<input type="checkbox"/> CH92	<input type="checkbox"/> CH93	<input type="checkbox"/> CH94
<input type="checkbox"/> CH88	<input type="checkbox"/> CH89	<input type="checkbox"/> CH90	<input type="checkbox"/> CH91	<input type="checkbox"/> CH92	<input type="checkbox"/> CH93	<input type="checkbox"/> CH94	<input type="checkbox"/> CH95
<input type="checkbox"/> CH89	<input type="checkbox"/> CH90	<input type="checkbox"/> CH91	<input type="checkbox"/> CH92	<input type="checkbox"/> CH93	<input type="checkbox"/> CH94	<input type="checkbox"/> CH95	<input type="checkbox"/> CH96
<input type="checkbox"/> CH90	<input type="checkbox"/> CH91	<input type="checkbox"/> CH92	<input type="checkbox"/> CH93	<input type="checkbox"/> CH94	<input type="checkbox"/> CH95	<input type="checkbox"/> CH96	<input type="checkbox"/> CH97
<input type="checkbox"/> CH91	<input type="checkbox"/> CH92	<input type="checkbox"/> CH93	<input type="checkbox"/> CH94	<input type="checkbox"/> CH95	<input type="checkbox"/> CH96	<input type="checkbox"/> CH97	<input type="checkbox"/> CH98
<input type="checkbox"/> CH92	<input type="checkbox"/> CH93	<input type="checkbox"/> CH94	<input type="checkbox"/> CH95	<input type="checkbox"/> CH96	<input type="checkbox"/> CH97	<input type="checkbox"/> CH98	<input type="checkbox"/> CH99
<input type="checkbox"/> CH93	<input type="checkbox"/> CH94	<input type="checkbox"/> CH95	<input type="checkbox"/> CH96	<input type="checkbox"/> CH97	<input type="checkbox"/> CH98	<input type="checkbox"/> CH99	<input type="checkbox"/> CH100
<input type="checkbox"/> CH94	<input type="checkbox"/> CH95	<input type="checkbox"/> CH96	<input type="checkbox"/> CH97	<input type="checkbox"/> CH98	<input type="checkbox"/> CH99	<input type="checkbox"/> CH100	<input type="checkbox"/> CH101
<input type="checkbox"/> CH95	<input type="checkbox"/> CH96	<input type="checkbox"/> CH97	<input type="checkbox"/> CH98	<input type="checkbox"/> CH99	<input type="checkbox"/> CH100	<input type="checkbox"/> CH101	<input type="checkbox"/> CH102
<input type="checkbox"/> CH96	<input type="checkbox"/> CH97	<input type="checkbox"/> CH98	<input type="checkbox"/> CH99	<input type="checkbox"/> CH100	<input type="checkbox"/> CH101	<input type="checkbox"/> CH102	<input type="checkbox"/> CH103
<input type="checkbox"/> CH97	<input type="checkbox"/> CH98	<input type="checkbox"/> CH99	<input type="checkbox"/> CH100	<input type="checkbox"/> CH101	<input type="checkbox"/> CH102	<input type="checkbox"/> CH103	<input type="checkbox"/> CH104
<input type="checkbox"/> CH98	<input type="checkbox"/> CH99	<input type="checkbox"/> CH100	<input type="checkbox"/> CH101	<input type="checkbox"/> CH102	<input type="checkbox"/> CH103	<input type="checkbox"/> CH104	<input type="checkbox"/> CH105
<input type="checkbox"/> CH99	<input type="checkbox"/> CH100	<input type="checkbox"/> CH101	<input type="checkbox"/> CH102	<input type="checkbox"/> CH103	<input type="checkbox"/> CH104	<input type="checkbox"/> CH105	<input type="checkbox"/> CH106
<input type="checkbox"/> CH100	<input type="checkbox"/> CH101	<input type="checkbox"/> CH102	<input type="checkbox"/> CH103	<input type="checkbox"/> CH104	<input type="checkbox"/> CH105	<input type="checkbox"/> CH106	<input type="checkbox"/> CH107
<input type="checkbox"/> CH101	<input type="checkbox"/> CH102	<input type="checkbox"/> CH103	<input type="checkbox"/> CH104	<input type="checkbox"/> CH105	<input type="checkbox"/> CH106	<input type="checkbox"/> CH107	<input type="checkbox"/> CH108
<input type="checkbox"/> CH102	<input type="checkbox"/> CH103	<input type="checkbox"/> CH104	<input type="checkbox"/> CH105	<input type="checkbox"/> CH106	<input type="checkbox"/> CH107	<input type="checkbox"/> CH108	<input type="checkbox"/> CH109
<input type="checkbox"/> CH103	<input type="checkbox"/> CH104	<input type="checkbox"/> CH105	<input type="checkbox"/> CH106	<input type="checkbox"/> CH107	<input type="checkbox"/> CH108	<input type="checkbox"/> CH109	<input type="checkbox"/> CH110
<input type="checkbox"/> CH104	<input type="checkbox"/> CH105	<input type="checkbox"/> CH106	<input type="checkbox"/> CH107	<input type="checkbox"/> CH108	<input type="checkbox"/> CH109	<input type="checkbox"/> CH110	<input type="checkbox"/> CH111
<input type="checkbox"/> CH105	<input type="checkbox"/> CH106	<input type="checkbox"/> CH107	<input type="checkbox"/> CH108	<input type="checkbox"/> CH109	<input type="checkbox"/> CH110	<input type="checkbox"/> CH111	<input type="checkbox"/> CH112
<input type="checkbox"/> CH106	<input type="checkbox"/> CH107	<input type="checkbox"/> CH108	<input type="checkbox"/> CH109	<input type="checkbox"/> CH110	<input type="checkbox"/> CH111	<input type="checkbox"/> CH112	<input type="checkbox"/> CH113
<input type="checkbox"/> CH107	<input type="checkbox"/> CH108	<input type="checkbox"/> CH109	<input type="checkbox"/> CH110	<input type="checkbox"/> CH111	<input type="checkbox"/> CH112	<input type="checkbox"/> CH113	<input type="checkbox"/> CH114
<input type="checkbox"/> CH108	<input type="checkbox"/> CH109	<input type="checkbox"/> CH110	<input type="checkbox"/> CH111	<input type="checkbox"/> CH112	<input type="checkbox"/> CH113	<input type="checkbox"/> CH114	<input type="checkbox"/> CH115
<input type="checkbox"/> CH109	<input type="checkbox"/> CH110	<input type="checkbox"/> CH111	<input type="checkbox"/> CH112	<input type="checkbox"/> CH113	<input type="checkbox"/> CH114	<input type="checkbox"/> CH115	<input type="checkbox"/> CH116
<input type="checkbox"/> CH110	<input type="checkbox"/> CH111	<input type="checkbox"/> CH112	<input type="checkbox"/> CH113	<input type="checkbox"/> CH114	<input type="checkbox"/> CH115	<input type="checkbox"/> CH116	<input type="checkbox"/> CH117
<input type="checkbox"/> CH111	<input type="checkbox"/> CH112	<input type="checkbox"/> CH113	<input type="checkbox"/> CH114	<input type="checkbox"/> CH115	<input type="checkbox"/> CH116	<input type="checkbox"/> CH117	<input type="checkbox"/> CH118
<input type="checkbox"/> CH112	<input type="checkbox"/> CH113	<input type="checkbox"/> CH114	<input type="checkbox"/> CH115	<input type="checkbox"/> CH116	<input type="checkbox"/> CH117	<input type="checkbox"/> CH118	<input type="checkbox"/> CH119
<input type="checkbox"/> CH113	<input type="checkbox"/> CH114	<input type="checkbox"/> CH115	<input type="checkbox"/> CH116	<input type="checkbox"/> CH117	<input type="checkbox"/> CH118	<input type="checkbox"/> CH119	<input type="checkbox"/> CH120
<input type="checkbox"/> CH114	<input type="checkbox"/> CH115	<input type="checkbox"/> CH116	<input type="checkbox"/> CH117	<input type="checkbox"/> CH118	<input type="checkbox"/> CH119	<input type="checkbox"/> CH120	<input type="checkbox"/> CH121
<input type="checkbox"/> CH115	<input type="checkbox"/> CH116	<input type="checkbox"/> CH117	<input type="checkbox"/> CH118	<input type="checkbox"/> CH119	<input type="checkbox"/> CH120	<input type="checkbox"/> CH121	<input type="checkbox"/> CH122
<input type="checkbox"/> CH116	<input type="checkbox"/> CH117	<input type="checkbox"/> CH118	<input type="checkbox"/> CH119	<input type="checkbox"/> CH120	<input type="checkbox"/> CH121	<input type="checkbox"/> CH122	<input type="checkbox"/> CH123
<input type="checkbox"/> CH117							

To create a group, select a group from the “Group” drop-down.



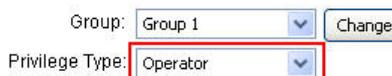
Group: Change Group Name
Privilege Type:

You can change the group name by clicking the “Change Group Name” button. A text box will be displayed for you to enter the new group.



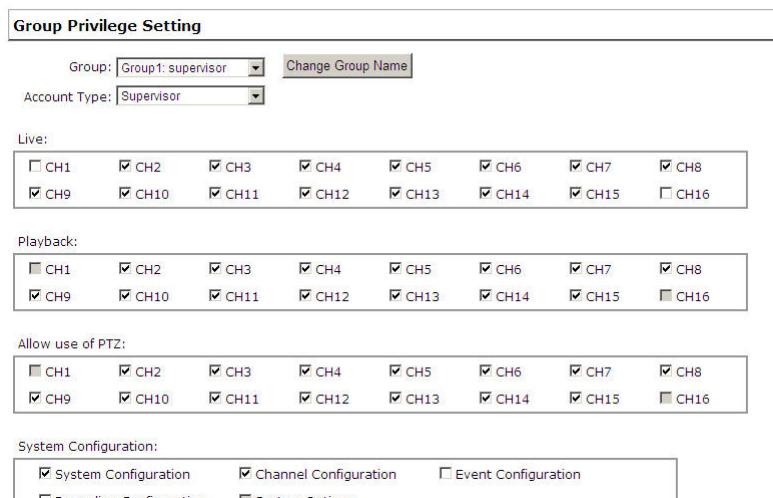
Group: Change Group Name
Privilege Type:

Choose what type of privilege you would like this group to have from the “Privilege Type” drop-down menu.



Group: Change
Privilege Type:

Its access privilege will then be displayed. You can alter its settings by allowing or denying access to other cameras using the checkboxes instead of accepting the defaults.



Group Privilege Setting

Group: Change Group Name
Account Type:

Live:

<input type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH8
<input checked="" type="checkbox"/> CH9	<input checked="" type="checkbox"/> CH10	<input checked="" type="checkbox"/> CH11	<input checked="" type="checkbox"/> CH12	<input checked="" type="checkbox"/> CH13	<input checked="" type="checkbox"/> CH14	<input checked="" type="checkbox"/> CH15	<input type="checkbox"/> CH16

Playback:

<input type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH8
<input checked="" type="checkbox"/> CH9	<input checked="" type="checkbox"/> CH10	<input checked="" type="checkbox"/> CH11	<input checked="" type="checkbox"/> CH12	<input checked="" type="checkbox"/> CH13	<input checked="" type="checkbox"/> CH14	<input checked="" type="checkbox"/> CH15	<input type="checkbox"/> CH16

Allow use of PTZ:

<input type="checkbox"/> CH1	<input checked="" type="checkbox"/> CH2	<input checked="" type="checkbox"/> CH3	<input checked="" type="checkbox"/> CH4	<input checked="" type="checkbox"/> CH5	<input checked="" type="checkbox"/> CH6	<input checked="" type="checkbox"/> CH7	<input checked="" type="checkbox"/> CH8
<input checked="" type="checkbox"/> CH9	<input checked="" type="checkbox"/> CH10	<input checked="" type="checkbox"/> CH11	<input checked="" type="checkbox"/> CH12	<input checked="" type="checkbox"/> CH13	<input checked="" type="checkbox"/> CH14	<input checked="" type="checkbox"/> CH15	<input type="checkbox"/> CH16

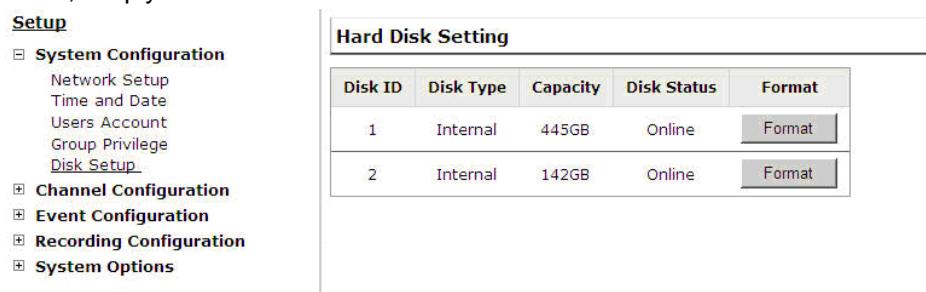
System Configuration:

<input checked="" type="checkbox"/> System Configuration	<input checked="" type="checkbox"/> Channel Configuration	<input type="checkbox"/> Event Configuration
<input type="checkbox"/> Recording Configuration	<input type="checkbox"/> Custom Options	

6.1.6 Disk Setup

Once you install a hard disk to the recorder, you would need to initialize it so that it can be ready for recording. You can obtain basic information about the disk you installed in this page.

To initialize it, simply click the “Format” button.



Setup

System Configuration

- Network Setup
- Time and Date
- Users Account
- Group Privilege
- Disk Setup**

Hard Disk Setting

Disk ID	Disk Type	Capacity	Disk Status	Format
1	Internal	445GB	Online	<input type="button" value="Format"/>
2	Internal	142GB	Online	<input type="button" value="Format"/>

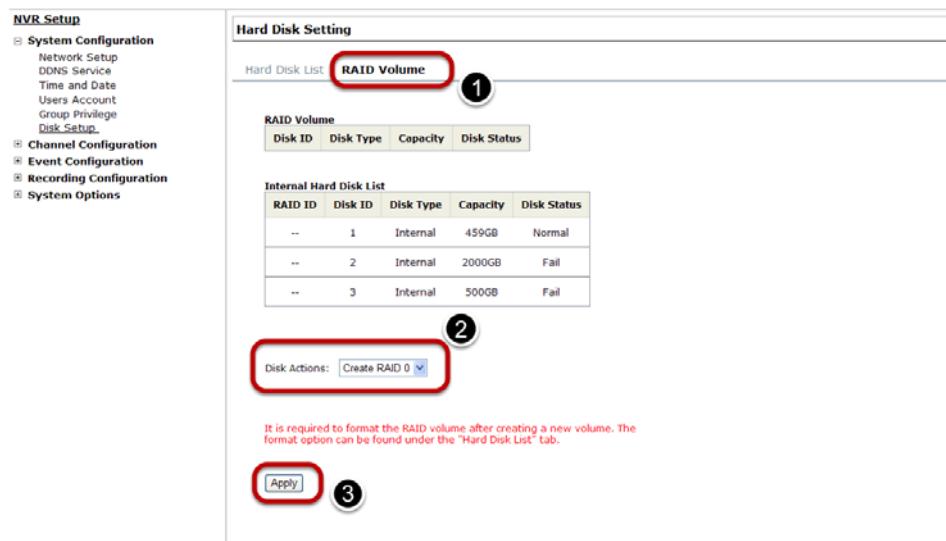
You can also connect external USB thumb drive to the recorder for firmware upgrade.

 This page will list the Internal disks (or RAID volumes), and the E-SATA disk only. The HDD will be formatted in EXT3 file system.

 The USB HDDs will only be listed in the "USB Backup" and "Hard Disk Status" pages in "System Options". The USB HDDs have to be formatted in advance in FAT16/FAT32 or EXT3 file system. (FAT32 is recommended).

Build RAID Volume

The internal HDDs can be used for RAID. To do so, go to "RAID Volume" in Disk Setup and choose the available disk action



The "Disk Actions" drop-down menu displays available actions based on how many HDDs are installed in the NVR. For detail, please refer to the table above.

RAID Type	HDD #	Allow Failed HDD	Capacity
RAID 0	2-4	0	(HDD#) x (Smallest HDD size)
RAID 1	2-4	(HDD #) - 1	Smallest HDD Size
RAID 5	>=3	1	(HDD# - 1) x (Smallest HDD size)
RAID 10	>=4	1 HDD within each RAID 1 group	(HDD# / 2) x (Smallest HDD size)

1. Select a disk action and click "Apply" to proceed. A warning dialog will be displayed as creating RAID volume will erase all existing data on the HDDs. Click "OK" to continue.

RAID Volume

Disk ID	Disk Type	Capacity	Disk Status	
--	1	Internal	459GB	Normal
--	2	Internal	2000GB	Fail
--	3	Internal	500GB	Fail

Internal Hard Disk List

RAID ID	Disk ID	Disk Type	Capacity	Disk Status
--	1	Internal	459GB	Normal
--	2	Internal	2000GB	Fail
--	3	Internal	500GB	Fail

Disk Actions:

Message from webpage

Creating new RAID volume will result in ALL DATA LOSS. Do you want to continue?

It is required to format the RAID volume after creating a new volume. The format option can be found under the "Hard Disk List" tab.

2. Please wait for a few moments while the NVR is creating the RAID volume.



3. You will be prompted once the action is completed successfully.



4. Once the RAID volume is created, it will be listed in the "RAID volume list with the status of "Offline"

RAID Volume				
Disk ID	Disk Type	Capacity	Disk Status	
1	RAID-0	3001GB	Offline	

Internal Hard Disk List				
RAID ID	Disk ID	Disk Type	Capacity	Disk Status
1	1	Internal	500GB	Normal
1	2	Internal	2000GB	Normal
1	3	Internal	500GB	Normal

Disk Actions:

It is required to format the RAID volume after creating a new volume. The format option can be found under the "Hard Disk List" tab.

5. Go back to the "Hard Disk List" page and the RAID volume should be in the list. Click "Format" to bring the RAID volume online.

Disk ID	Disk Type	Capacity	Disk Status	Format
1	RAID-0	3001GB	Offline	<input type="button" value="Format"/>

6. The status will be displayed just as if you were formatting any internal HDDs

Disk ID	Disk Type	Capacity	Disk Status	Format
1	Internal	500GB	Offline	Formatting...0%
2	Internal	2000GB	Offline	<input type="button" value="Format"/>
3	Internal	500GB	Offline	<input type="button" value="Format"/>

7. Once a RAID volume is created, it can be deleted at anytime by choosing the "Delete RAID" action in the RAID volume page. All existing data will be removed after the RAID volume is deleted. All internal disks that were originally used for RAID volume will have to be formatted again after the RAID volume is deleted.

RAID Volume

Disk ID	Disk Type	Capacity	Disk Status
1	RAID-0	3001GB	Offline

Internal Hard Disk List

RAID ID	Disk ID	Disk Type	Capacity	Disk Status
1	1	Internal	500GB	Normal
1	2	Internal	2000GB	Normal
1	3	Internal	500GB	Normal

Disk Actions:

Message from webpage

Deleting RAID volume will result in ALL DATA LOSS on all disks. Do you want to continue?

It is required to format the RAID volume after creating a new volume. The format option can be found under the "Hard Disk List" tab.

- ⚠ Once a RAID volume is created, the "Delete RAID" option should be presented in the "Disk Action" drop-down menu. (Regardless the RAID volume has been formatted or not)
- ⚠ Only RAID1 and RAID 5 have repair function
- ⚠ The recording should continue even when RAID 1 or RAID 5 volume fails or is rebuilding.
- ⚠ The replacement hard drive size must be larger or equal to the size of the smallest disk in the volume.
- ⚠ The internal disks do not need to be formatted prior to creating RAID volume
- ⚠ Create RAID with an existing RAID volume is not allowed
- ⚠ Once a RAID volume is deleted, all internal disks within that RAID should become offline and need to be formatted again before they can be used individually.
- ⚠ All internal disks (or RAID volumes) need to be formatted before they can be used.

6.2 Channel Configurations

6.2.1 Add a Camera

The NVR provides two options for adding a new camera. Users have the option to let the recorder automatically find the cameras or it is possible to enter camera's information and add it manually.

NVR Setup

- System Configuration
- Channel Configuration
 - Channel Setting
 - OSD Setting
 - PTZ Setting
 - E-Map Setting
- Event Configuration
- Recording Configuration
- System Options

Channel Setting

Channel	Channel Name	IP Address	Format	Resolution
1	#CH 1	192.168.0.71	jpeg	1080p
2	#CH 2	192.168.0.50	mpeg4	vga

Add New Channel:

Channel ID: 3
Channel Name: cam3
IP Address:
User Name:
Password:
HTTP Port: 80

Click here to search camera: * You may skip this step and add a new camera manually by entering camera's setting in the "Camera Information" section.

Detect Once you fill out above information, click "Detect" to retrieve camera setting

Automatic Search:

1. Click the "Search" button to perform the camera search. You should be prompted to install Active Control component in order for the search to function properly. Go ahead and click "Install"



2. After that, the search should begin and its status should be displayed.



3. Found cameras should be listed and simply select a camera from the list and press "Configure".

[Click here to search camera:](#) [Search Again](#)

* You may skip this step and add a new camera manually by entering camera's setting in the "Camera Information" section

Brand	Model	IP Address	HTTP Port	Installed
PLANET	ICA-510	192.168.0.49	80	
PLANET	ICA-601	192.168.0.61	80	
PLANET	ICA-230	192.168.0.230	80	
PLANET	ICA-H651	192.168.0.231	80	

[Configure](#)

*Select a camera from search result and click "Configure" to configure setting below.

4. It is corresponding information should be displayed in the “Camera Information” section. Enter its username and password and select the channel ID and name the camera.

Add New Channel:

Channel ID: 5

Channel Name: ICA-230

Group: Group2

IP Address: 192.168.0.230

User Name: admin

Password:

HTTP Port: 80

Once you fill out above information, click "Detect" to retrieve camera setting

5. Click on “Detect” to establish connection between the recorder and the camera. If connection establishes successfully, camera’s detailed information should be polled and displayed as below.

Additional Camera Information

Video Port: 554

Format: MJPEG

Resolution: 320x240

Quality: 1

Record: Continuous

6. Adjust its video format, frame rate, resolution or bitrates...etc if you wish. You can also click on the “Preview” to preview the live video of the camera.

Click “Add” to finish adding the camera.



If cameras are marked with “*” in the search result, it means those cameras are already configured and connected to NVR.

Click here to search camera:

* You may skip this step and add a new camera manually by entering camera's setting in the "Camera Information" section

Brand	Model	IP Address	HTTP Port	Installed
PLANET	ICA-510	192.168.0.49	80	*
PLANET	ICA-601	192.168.0.61	80	
PLANET	ICA-230	192.168.0.230	80	
PLANET	ICA-H651	192.168.0.231	80	

*Select a camera from search result and click "Configure" to configure setting below.

Add a camera manually

Simply follow the instruction described above but instead of using the “Search” function, enter the camera’s IP address and credential in the “Camera Information” manually, then follow step 5 and 6 described above.

Add New Channel:

Channel ID:	3
Channel Name:	cam3
Group:	Group1
Change Group Name	
IP Address:	192.168.101.20
User Name:	root
Password:	*****
HTTP Port:	80

Detect Once you fill out above information, click "Detect" to retrieve camera setting

Enter manually

Once the camera's settings are polled and displayed, you can also enable "continuous" recording and adjust its recording quality settings before adding the camera.

Some cameras are capable of multiple streaming profiles, in which different video codes are used for different purposes.

You will be able to use different video format for continuous recording if it's a multi-stream capable camera.

HTTP Port: 100

Detect Once you change the camera's IP, User Name, Password or HTTP Port, click "Detect" to retrieve the camera's settings

Additional Camera Information

Video Port: 554	Format: jpeg
Resolution: 1920x1080	Frame Rate: Full
Quality: 2	
Record: <input checked="" type="checkbox"/> Continuous	Format: h264
	Resolution: 1920x1080
	Frame Rate: Full
	Bitrate Mode: CBR
	Bitrate: Full

Record Audio: Record audio

Settings for live video

Settings for continuous recording

Apply Cancel

There are two types of fps settings here, one is the fps that NVR sets back to the camera, and this is the fps NVR will be receiving from the camera. The other is recording fps which will be limited by the live fps. (Ex. if the live fps is set to 10, choosing "Full" in the recording fps meaning it will only record at 10fps maximum).

For MPEG/H.264, only I frame or full (i+p frame) can be selected for recording fps.

Quality: 2

Record: Continuous Full

Format: recording fps

Resolution: 1080P

Frame Rate: Full

Bitrate: ---

Bitrate: live fps

Record Audio: Record audio

For single stream camera, only the recording fps can be adjusted.

Detect Once you change the camera's IP, User Name, Password or HTTP Port, click "Detect" to retrieve the camera's settings

Additional Camera Information

Video Port: 554

Format: jpeg

Resolution: 4CIF

Frame Rate: 20

Quality: 1

Record: Continuous 1FPS

Record Audio: Record audio

Simply follow the instruction described above but instead of using the "Search" function, enter the camera's IP address and credential in the "Camera Information" manually.

Add New Channel:

2. Channel ID: 3 Channel Name: cam3 Group: Group1 Change Group Name

1. IP Address: 192.168.101.20 User Name: root Password: **** HTTP Port: 80

Detect Once you fill out above information, click "Detect" to retrieve camera setting

Enter manually

6.2.2 OSD Settings

The OSD (On Screen Display) allows users to add informational text message and embed it onto the video. By default, this function is turned off. To add texts to one or more videos.

1. Select a camera you would like to add text to and choose “Display OSD”.



2. Choose one or more display options if you would also like the recorder to automatically embed the system time or the frame rate for you. Or simply choose to display a custom message of your own.



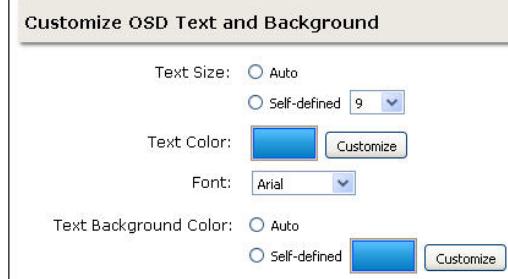
3. Next, define where the text will be displayed by either entering an X/Y coordinate or use the system pre-defined position from the drop-down menu.



4. Click on the “Preview” button to see the preview of your setting and click “Apply” to save the configuration.

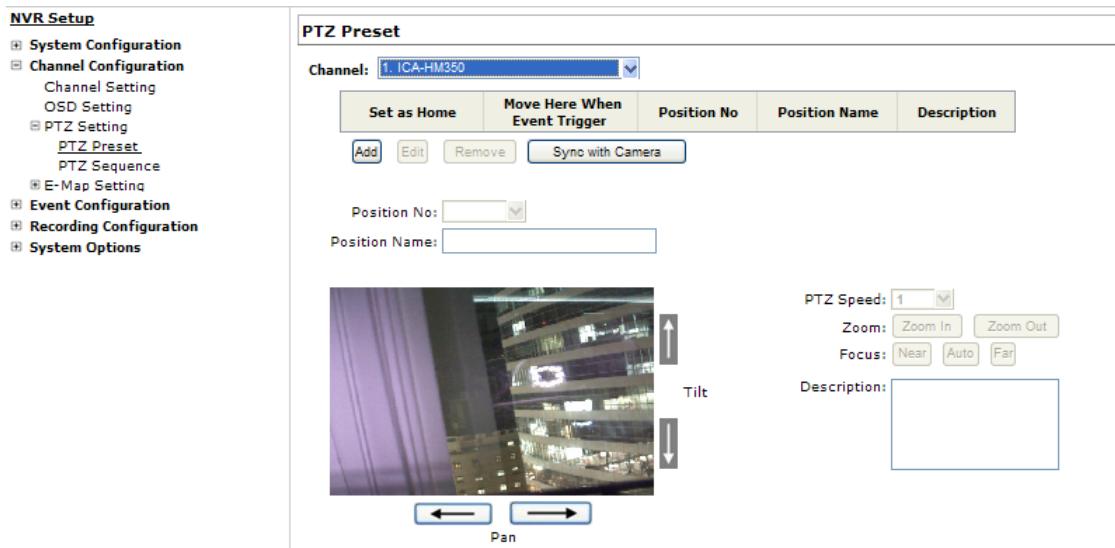


The texts can be further adjusted with changes to different size, color or font so they can be more visible on the video.



6.2.3 PTZ Preset Settings

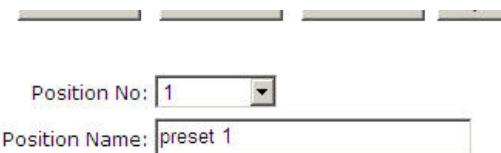
The recorder supports PTZ cameras and can set multiple preset points or retrieve and manage preset points that are set in the camera. This is helpful if you need to monitor multiple spots in one area from a particular camera.



1. To set up PTZ preset points, select a camera from the “Camera” drop-down menu and click “Add”.



2. Select a position number for the preset point from the “Position Number” drop-down menu and fill in a name in the “Position Name” field for easier identification.



3. Use the PTZ control provided in the configuration page to set the preset point and set the position as the “HOME” position if you wish.

4. Click “Apply” to save the configuration.

6.2.4 PTZ Preset Sequence

Once you have multiple preset points defined for a camera, it is convenient for monitoring to set up the sequencing viewing among those preset point and let the recorder automatically switch between them for you.

The screenshot shows the NVR Setup interface with the following structure:

- NVR Setup** (Section Header)
- System Configuration** (Section Header)
- Channel Configuration** (Section Header)
 - Channel Setting
 - OSD Setting
 - PTZ Setting
 - PTZ Preset
 - PTZ Sequence (highlighted)
 - E-Map Setting
- Event Configuration** (Section Header)
- Recording Configuration** (Section Header)
- System Options** (Section Header)

PTZ Sequence (Section Header)

Channel:

Preset Positions:

Preset Sequence:

Dwell Time:

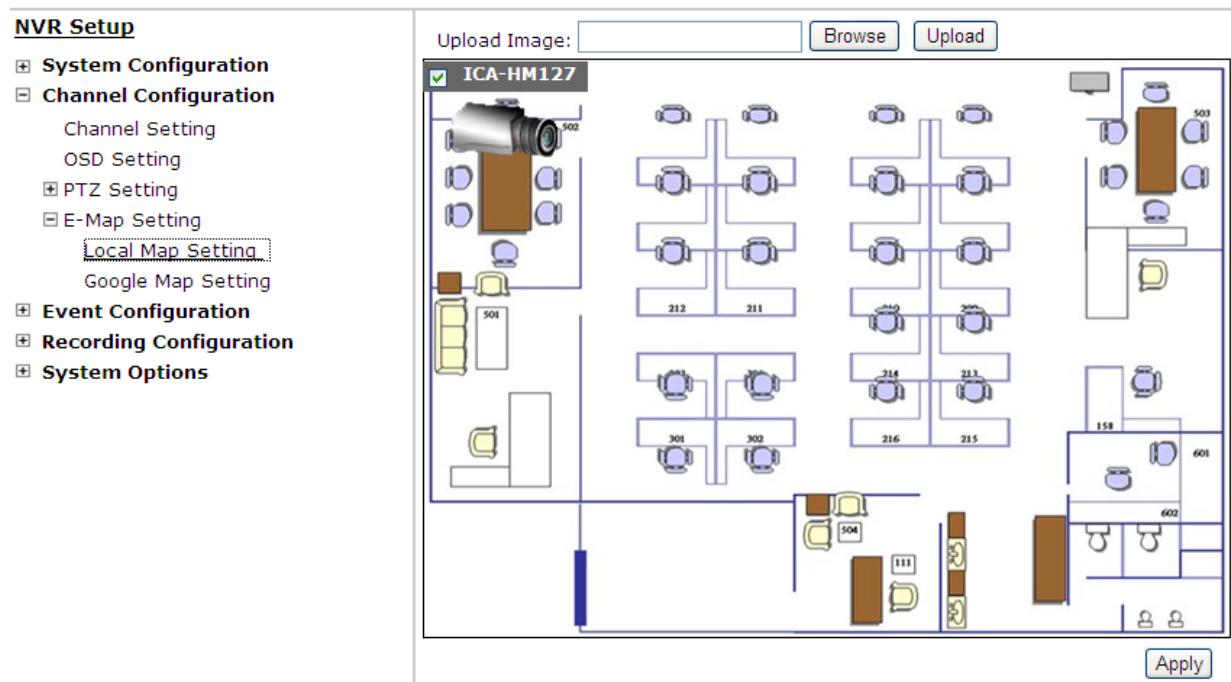
To configure preset sequence for a camera,

- 1." select a camera from the "Camera" drop-down menu. The available preset points should be listed in "Camera Presets" section.
2. Pick the ones you like for sequence viewing and press the "->" button to move them to the "Adjust Position" section, then use the up and down buttons to adjust their sequences.
3. Finally, select a dwell time from the drop-down menu and click "Apply" to save the configuration.

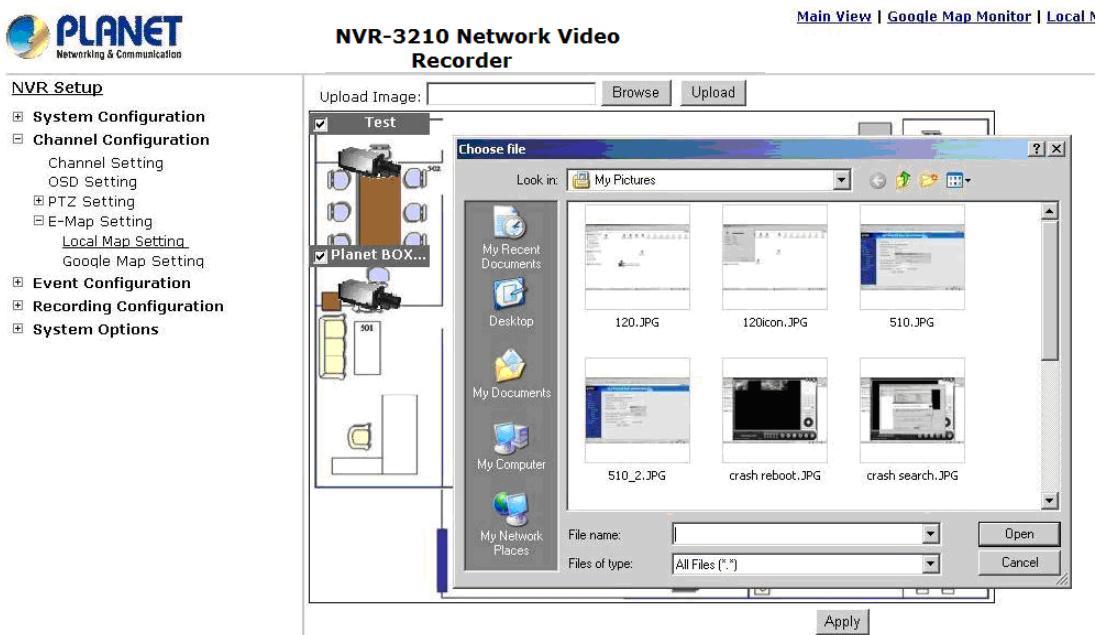
6.2.5 E-Map Setting

6.2.5.1 Local Map Setting

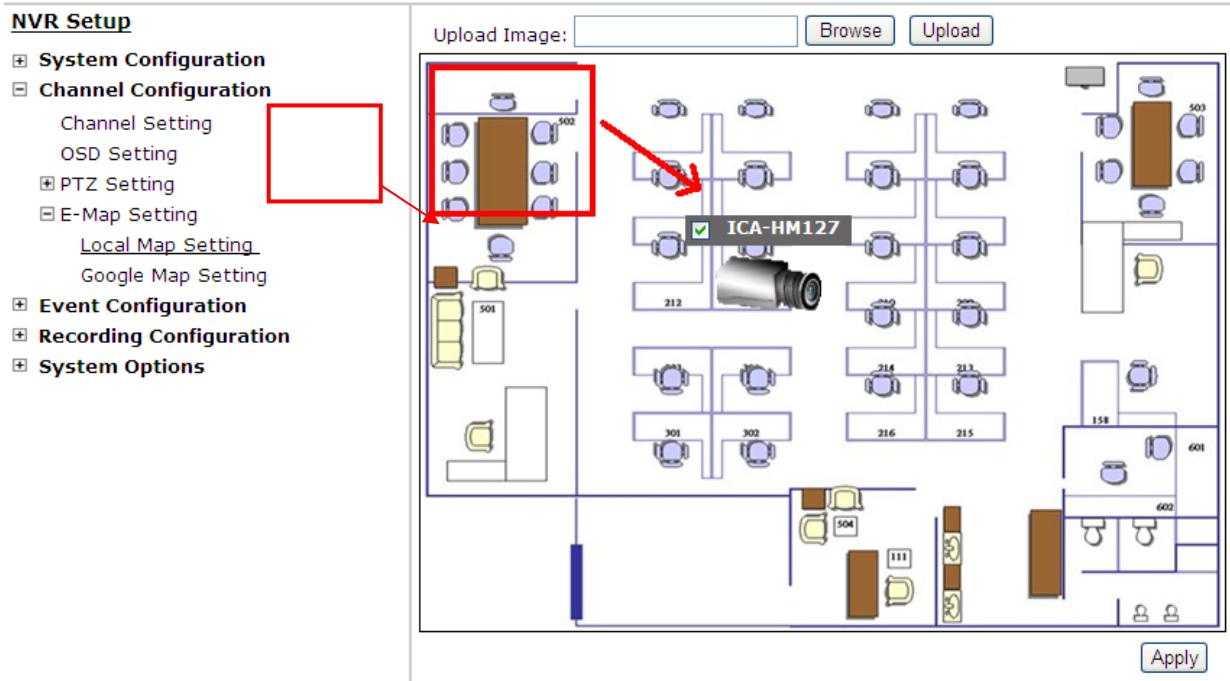
Local Map Setting is a function that alerts users whenever there is an event triggered (e.g. motion detected) from a camera with a geographical perspective. With this function, users can quickly identify which camera has detected an unusual event and where this event is happening. This function works by incorporating the event detection function as well as the recording function, which, as a result, helps users take all the necessary actions when an unusual event occurs.



To replace the map, click “Browse” button to locate the new map image file from the local PC and then click “Upload”.



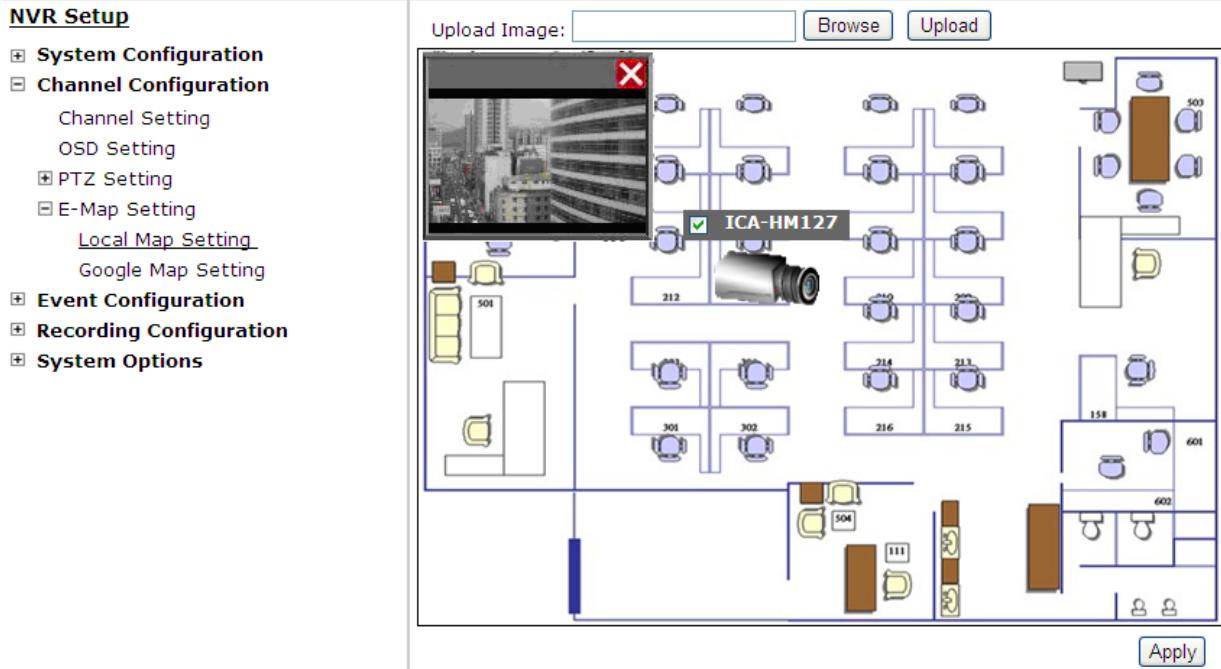
Then click and drag the camera icon to move the camera to define its location.



Access the E-Map Monitor page from the upper-right hand corner menu.

[Main View](#) | [Google Map Monitor](#) | **Local MAP Monitor** | [NVR Setup](#) |
System Time: July 07,

When the NVR receives an event triggered from any of the cameras, their videos will be displayed on the E-Map and you can double-click on the video to enlarge it.



6.2.5.2 Google Map Setting

The Google Map monitor is a similar function to the aforementioned E-Map monitor. It is useful if you are managing multiple cameras from different locations.



To configure locations of each camera, first determine the location

You'd like to place the camera to on the map. You can do so by:

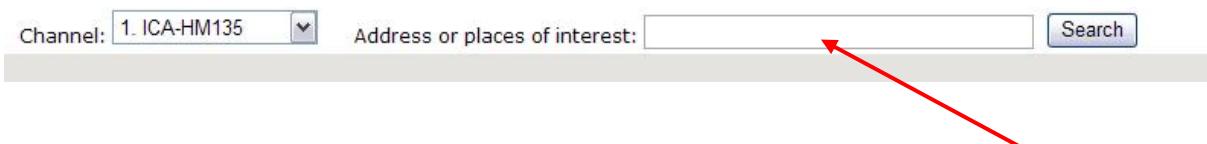
1. Zoom in to a smaller area by using the zoom control bar on the map
2. Zoom in to a smaller area by using the mouse scroll button

NVR Setup

- + **System Configuration**
- **Channel Configuration**
 - Channel Setting
 - OSD Setting
- + **PTZ Setting**
- **E-Map Setting**
 - [Local Map Setting](#)
 - [Google Map Setting](#)
- + **Event Configuration**
- + **Recording Configuration**
- + **System Options**

Channel: 1. ICA-HM127

You can also go to a specific place on the map by entering its address or the name of the place in the "Address or places of interest" field:



Once the location has been determined, click and drag the camera icon to move it to the desired

location:



The Google Map Monitor requires active Internet connection and can not be used in conjunction with the regular E-Map monitor function.

- You can click anywhere on the map and hold down the mouse left button then drag to move the map itself

You can then access the Google Map Monitor from the top menu:



6.3 Event Configurations

The “Event Configurations” section allows users to define conditions that constitute an event, its corresponding trigger action and when it will be triggered. Such setting can reduce the management overhead and notify the administrator only when it's necessary.

6.3.1 General Settings

The general settings section can help you quickly configure when an event is triggered, how often events are triggered and the corresponding actions when events are triggered.

NVR Setup

- System Configuration
- Channel Configuration
- Event Configuration**
 - General Setting**
 - DI Setting
 - Event Servers
 - Event Trigger
- Recording Configuration
- System Options

General Setting

Event Trigger Duration

Always

Only during: Sun Mon Tues Wed Thur Fri Sat

Start Time: : End Time: :

Event Trigger Interval

Interval: Seconds. (5~86400)

Trigger Actions

Subject: <TIME> : <CH> <TRIGGER> from <IP>

Send Message

Text:

FTP File Name:

Start the event configuration by defining the general settings:

Define when an event will be triggered.

- Choose “Always” or “Only during...” under “Event Trigger Duration”.
- For the “Only during...” option, choose the days by using the check-box and then define the time range in those days in the “Start Time” and “End Time” fields that you would like the event trigger function to be enabled.

How often an event is triggered

- Set a time interval under “Event Trigger Interval” to define how often events are triggered.

Trigger action

Now that you have the event trigger duration and interval defined, choose what action to be taken during an event trigger:

- You can choose to have the recorder send out the first few frames of the video recorder upon an event is triggered.
- You can also choose to have the recorder send out a warning message in e-mail or in txt file format and upload it to a destined FTP server.

6.3.2 I/O Settings

This function allows users to manage camera's digital input and output ports right from the recorder. You can setup the recorder to receive triggers from a particular camera's input port and trigger a device, such as an alarm that is connected to the recorder or camera's output port. Cameras that do not have built-in digital input/output port can also be configured to pair with the recorder's DI/DO ports.

NVR Setup

- [System Configuration](#)
- [Channel Configuration](#)
- [Event Configuration](#)
 - General Setting
 - [DI Setting](#)
 - [Event Servers](#)
 - [Event Trigger](#)
- [Recording Configuration](#)
- [System Options](#)

DI Setting

	Trigger Event When	
	IP Camera	
	Port	Condition
CH 1	1	-----
CH 2	2	-----
CH 3	-----	-----
CH 4	1	-----
CH 5	2	-----
CH 6	-----	-----
CH 7	-----	-----
CH 8	1	-----
CH 9	2	-----

1. For cameras that come with physical digital input ports, their ports will be listed in the far left drop-down menu.
2. Pick the desired channel for I/O mapping, and then select the camera's input port from the drop-down menu.
3. Select the trigger condition from the "Condition" drop-down menu.
4. Select the recorder's input port if you would also like to use the recorder's input port for event trigger. And then select the trigger condition as well.
5. Next, select the recorder's output port and the trigger action.
6. Finally, define the trigger duration.

 NOTE	<ol style="list-style-type: none"> 1. The recorder does not control camera's input or output ports in a way to let you pair recorder itself with a camera's input or output port for event receiving or triggering. 2. The recorder only acts as a medium for pairing up input/output ports between cameras and the recorder. 3. Only connected cameras will be displayed in the list. 4. Some cameras only allow one trigger source be configured at a time, e.g.: if the camera has the motion detection function turned on, its digital input will be disabled and vice versa. Under such circumstance, if you set to use camera's digital input port as the event trigger source, you will not be able to select motion detection as the /trigger source for this camera under "Event Configurations" >> "Event Trigger" setup page.
----------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

6.3.3 Event Servers

Event servers are to be used with event trigger actions. In case of unusual motion detected by the camera or a disk failure, the recorder can send notification with the acceptable format (image/txt) to a destined event server according to the configuration.

Configuring an FTP server

FTP Servers Setting

Name	Network Address	Port	Passive Mode
<input type="button" value="Edit"/>	<input type="button" value="Remove"/>		

FTP Server

Name:

Network Address: *Enter host name or IP address

Port: 21

Login Information

User Name:

Password:

Passive Mode

Use Passive Mode

Test

Upload Path:

*Click "Test" to test the connection to the FTP server

To add an FTP server,

1. Start by giving a name to the server that you are adding to the recorder.
2. Enter the hostname or the IP address of the FTP server.
3. Enter the communication port of the FTP server (usually port 21).

FTP Server

Name:

Network Address: * Enter host name or IP address

Port:

4. Enter the username and password of the FTP server if it's required
5. Check "Use Passive Mode" if it's required or leave it unchecked to use active mode.

Login Information

Username:

Password:

Passive Mode

Use Passive Mode

6. Click "Test" to verify if all information is entered correctly and the connection to the FTP server can be established successfully.
7. Click "Apply" for the settings to take effect.

Test

* Click "Test" to test the connection to the FTP server



If you wish to edit/remove/enable/disable an FTP server, click to highlight one from the profile list and choose the corresponding action button.

Name	Network Address	Upload Path	Port	Passive Mode
FTP 1	192.168.101.100	event	21	No

Buttons: Edit, Remove, Enable, Disable

Configuring an SMTP server

SMTP Servers Setting

SMTP Server 1

Network Address: *Enter host name or IP address
Port:
Sender's Name:
Sender's E-mail:
 Enable Authentication:
User Name:
Password:

Test

Send Test Email To:

SMTP Server 2

Network Address: *Enter host name or IP address
Port:
Sender's Name:
Sender's E-mail:
 Enable Authentication:
User Name:

1. Enter the hostname or the IP address of the SMTP server.
2. Enter the port of the SMTP server.
3. Specify the sender's name in the "Sender's name" field.
4. Enter the sender's e-mail address.
5. Check "Enable Authentication" and enter the username and password of the SMTP server and it requires authentication.
6. Click "Apply" to save the configuration.

6.3.4 Event Triggers

We have finished defining how an event will be triggered and which servers will be receiving notifications in the previous two sections, now we can finish up the event configuration by setting.

- .Which channels will have event trigger function enabled.
- .What is considered to be an event.

Where the warnings will be sent to and how they will be sent.

Event Handling Setting															
When Channel is triggered by															
I/O Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Custom Event	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I/O Input	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Motion Detection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Custom Event	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Please make sure you have properly enabled and configured motion detection region in the camera's web configuration UI before enabling motion detection in the NVR. The NVR only supports single region detection, and only the first region will be used even if you set multiple motion detection regions in the camera.															
When NVR is triggered by															
<input type="checkbox"/> Disk fail	<input type="checkbox"/> Recycled														
<input type="checkbox"/> When NVR start up	<input type="checkbox"/> When NVR system configuration changed														
<input type="checkbox"/> When channel's configuration changed	<input type="checkbox"/> When camera connection status changed														
<input type="checkbox"/> When remaining HDD space is lower than <input type="checkbox"/> GB (min. 2GB when HDD recycle function is disabled)															
Trigger Actions															
<input type="checkbox"/> E-Mail: E-Mail Addresses: <input type="text"/> *use "," to separate e-mails															
<input type="checkbox"/> FTP Upload Path: <input type="text"/>															
<input type="checkbox"/> Warning Sound															
<input type="checkbox"/> Move to particular preset points	<input type="button" value="Apply"/>														

Select Channels to Enable Event Trigger and which type of event should be triggered.

Use the checkbox to enable event trigger on the desired channels.

I/O Input	<input type="checkbox"/>														
Motion Detection	<input type="checkbox"/>														
Custom Event	<input type="checkbox"/>														
I/O Input	<input type="checkbox"/>														
Motion Detection	<input type="checkbox"/>														
Custom Event	<input type="checkbox"/>														

*Please make sure you have properly enabled and configured motion detection region in the camera's web configuration UI before enabling motion detection in the NVR. The NVR only supports single region detection, and only the first region will be used even if you set multiple motion detection regions in the camera.

Define which system events should trigger the recorder to send out notifications

When NVR is triggered by															
<input type="checkbox"/> Disk fail	<input type="checkbox"/> Recycled														
<input type="checkbox"/> When NVR start up	<input type="checkbox"/> When NVR system configuration changed														
<input type="checkbox"/> When channel's configuration changed	<input type="checkbox"/> When camera connection status changed														
<input type="checkbox"/> When remaining HDD space is lower than <input type="checkbox"/> GB (min. 2GB when HDD recycle function is disabled)															

Define how the notifications will be sent and where they will be sent to.

Trigger Actions

<input type="checkbox"/>	E-Mail: E-Mail Addresses: <input type="text"/> *use ";" to separate e-mails
<input type="checkbox"/>	FTP Upload Path: <input type="text"/>
<input type="checkbox"/>	Warning Sound
<input type="checkbox"/>	Move to particular preset points

* Event trigger may not work for cameras that are placed outside of your local network or on the Internet until the UPnP Port Forwarding" is enabled in both the NVR and the router.

6.4 Recording Configurations

The “recording configurations” gives users the overall control of how and when a recording is performed and the quality of different types of recordings performed on each channels. It can help the recorder to operate with sufficient system resource by performing recording only when it’s necessary with adjustable recording frame rate.

6.4.1 General Settings

You can define the following in “General Settings”:

- Pre-Alarm/Post-Alarm recording length
- Recording frame rate
- Define to always keep a number of days of previously recorded Data
- Enable/disable different recording types on different cameras
- Enable/disable audio recording

Recording General Settings

Recording Buffer

Pre-Alarm Buffer: Seconds (0~10)
Post-Alarm Buffer: Seconds (5~60)

Recording Frame Rate

Channel: Channel 1~8

	1	2	3	4	5	6	7	8
Format	Same as Live							
Continuous	1							
Schedule	1							
Event	5							
Manual	5							

Recycle HDD space

Enable Recycle (When enabled, recycle automatically starts when remaining HDD space reaches 10GB. The system recycles HDD space 20GB at a time)

Keep Video

Keep the previous days of recorded videos. (This setting will overwrite the Recycle HDD Space setting)

Camera Recording Setting

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	<input checked="" type="checkbox"/>														
Schedule	<input type="checkbox"/>														
Event	<input type="checkbox"/>														
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Continuous															
Schedule															
Event															

The “recording buffer” allows user to define “pre-alarm” and “post-alarm” time for event recordings. The “pre-alarm” time sets the NVR to record in advance when an event is triggered. The “post-alarm” time sets the NVR to continue recording for a period of time after an event trigger is finished.

Recording Buffer

Pre-alarm Buffer: sec * **The “Pre-alarm” function only Works when the “Continuous” Recording is also activated.**

Post-alarm Buffer: sec

Recording frame rate allows you to set different frame rate for different types of recording instead of recording at one frame rate only. Use the drop-down menu and select one of the pre-defined frame rates for a particular recording type.

Recording Frame Rate

	1	2	3	4	5	6	7	8
Continuous	I Only	I Only	I Only	I Only				
Schedule	I Only	I Only	I Only	I Only				
Event	Full	Full	Full	Full				
Manual	Full	Full	Full	Full				

Users can also set to keep a previous number of days of recording data by enabling the option below. This is quite often used in application such as banking which certain countries requires to always keeping a minimum previous number of days of recording data.

Keep Video

Keep the previous days of recorded videos. (This setting will overwrite the Recycle HDD Space setting)

* If this option is enabled, once the hard drive is full, the recycle function will then start but it will ensure that the number of days of recording data defined here will stay in hard drive instead of wiping out 20GB of data at a time.

* If the hard drive is not full, the NVR re-calculates twice a day (each at 2:30am and 2:30pm) to keep the defined number of days of recording data from these two particular points of time backward.
The section at the bottom allows you to turn on or off a particular recording type on any channels.

The “Camera Recording Setting” section allows you to turn on or off a particular recording type on any channels.

Camera Recording Setting

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	<input checked="" type="checkbox"/>															
Schedule	<input type="checkbox"/>															
Event	<input type="checkbox"/>															
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Continuous																
Schedule																
Event																

The section at the bottom of the page allows you to disable audio recording (record video only) of particular channels.

Record Audio

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Record audio	<input checked="" type="checkbox"/>															
	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Record audio																

6.4.2 Schedule Recording

Here you can define the time range of the schedule recording for all channels.

NVR Setup

- System Configuration
- Channel Configuration
- Event Configuration
- Recording Configuration**
 - General Setting
 - Schedule Recording Setting
- System Options

Schedule Recording Settings

Channel:

Schedule Table

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

Quick Configuration

Days: Sun Mon Tues Wed Thur Fri Sat All

Duration: All day

To configure a schedule recording:

1. Use the “Camera” drop-down menu and select a camera first.

Camera:

2. You can use the schedule table to set the time range. Click the cell boxes then move the cursor horizontally lets you set what hours to perform recording during a day. Click and move vertically lets you set what days to perform recording at a specific time.

Schedule Table

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

* Each cell box represents 15 minutes of time. Click one or more boxes to omit consecutive recording.

3. You can also use the “Quick Configuration” to define recording time range instead of clicking cell box one by one on the time table. Simply check what days you would like to perform recording and specify the recording duration by either choosing “All Day” or enter a start and end time for specific recording duration.

Quick Configuration

Days

Mon. Tue. Wed. Thur. Fri. Sat. Sun.

Duration

All day

During Start Time: End Time:

4. Select the “Copy to” option if you would like to set the same recording schedule to another camera.

<input checked="" type="radio"/> During	Start Time:	00	:	00	End Time:	00
Copy Schedule To Channel: <input type="button" value="▼"/>						
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>						

6.5 System Options

System Options gives users a glance of the overall system status and allows users to perform maintenance tasks such as upgrading firmware, restore/backup device settings or reboot deviceetc.

6.5.1 Device Information

The “Device Information” provides the general information of the device such as firmware version and system time. It also provides information of the current network settings and status.



NVR Setup

- System Configuration
- Channel Configuration
- Event Configuration
- Recording Configuration
- System Options
 - Device Information
 - System Logs
 - Maintenance
 - Disk Status
 - USB Backup

NVR-3210 Network Video Recorder

[Main View](#) | [Google Map Monitor](#) | [Local MAP Monitor](#)

System Time

General Information

Device Name: **NVR-3210**
 Model Name: **NVR-3210**
 Firmware Version: **1.1.0.44024**
 Device Time: **Up 0 day 08:57:39, since Dec 13 2011 19:41:55**

Network Information

Network Type: **Static IP**
 Device IP: **210.66.155.87**
 HTTP Port: **80**
 Streaming Port: **9877**
 MAC Address: **00:30:4F:60:00:02**
 UPnP Port Forwarding: **Disabled**

6.5.2 Logs and Reports

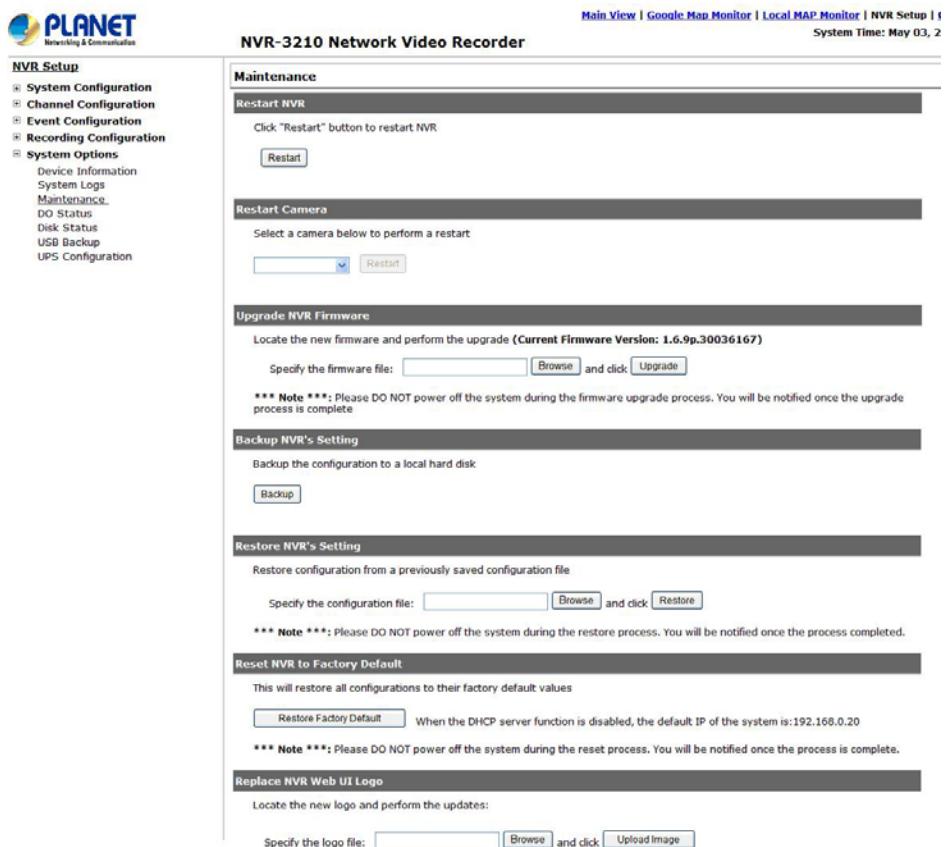
“Logs and Reports” keeps a record of what’s been happening to the device and provides basic information for troubleshooting.

System Logs							
ID	Time	Type	Sub-type	CH	AP	IP	User
1	December 14, 2011 09:22:21	User	User login		Web	60.250.65.207	admin
2	December 14, 2011 03:56:22	User	User logout		Web Event Receiver	123.193.94.24	
3	December 14, 2011 03:37:55	User	User login		Web Event Receiver	123.193.94.24	
4	December 14, 2011 03:12:22	User	User login		Web	123.193.94.24	admin
5	December 13, 2011 19:43:39	Channel	Camera disconnected	1			
6	December 13, 2011 19:43:27	User	User login		Web	60.250.65.207	admin
7	December 13, 2011 19:41:55	System	Restart network				
8	December 13, 2011 19:41:54	Service	Service Start				
9	December 13, 2011 19:41:44	Service	Service Stop				
10	December 13, 2011 19:41:43	Service	Reload Configuration				
11	December 13, 2011 18:35:06	User	User login		Web	192.168.0.76	admin
12	December 13, 2011 18:35:00	Service	Reload Configuration				
13	December 13, 2011 18:20:28	Channel	Camera connected	1			
14	December 13, 2011 18:19:57	Service	Reload Configuration				
15	December 13, 2011 18:14:49	Service	Reload Configuration				
16	December 13, 2011 15:29:37	User	User login		Web	192.168.0.76	admin
17	December 13, 2011 15:20:26	User	User login		Web	192.168.0.76	admin
18	December 13, 2011 11:39:03	User	User login		Web	192.168.0.59	admin
19	December 13, 2011 11:12:38	User	User login		Web	192.168.0.76	admin
20	December 13, 2011 11:12:30	User	User login		Web	192.168.0.76	admin
21	December 13, 2011 11:07:00	Channel	Camera disconnected	1			
22	December 13, 2011 11:05:50	System	Restart network				
23	December 13, 2011 11:05:49	Service	Service Start				
24	December 13, 2011 11:05:40	Service	Service Stop				
25	December 13, 2011 11:05:38	Service	Reload Configuration				

6.5.3 Maintenance

“Maintenance” provides functions for users to:

- Reboot the NVR when necessary
- Reboot cameras directly from the NVR
- Perform Firmware Upgrade
- Backup the NVR’s settings to a local hard drive
- Restore the NVR’s settings from a previously saved configuration file
- Reset the NVR’s settings to their factory default values



Main View | Google Map Monitor | Local Map Monitor | NVR Setup | System Time: May 03, 2

NVR-3210 Network Video Recorder

Maintenance

Restart NVR
Click "Restart" button to restart NVR
Restart

Restart Camera
Select a camera below to perform a restart
Restart

Upgrade NVR Firmware
Locate the new firmware and perform the upgrade (Current Firmware Version: 1.6.9p.30036167)
Specify the firmware file: **Browse** and click **Upgrade**
*** Note ***: Please DO NOT power off the system during the firmware upgrade process. You will be notified once the upgrade process is complete

Backup NVR's Setting
Backup the configuration to a local hard disk
Backup

Restore NVR's Setting
Restore configuration from a previously saved configuration file
Specify the configuration file: **Browse** and click **Restore**
*** Note ***: Please DO NOT power off the system during the restore process. You will be notified once the process completed.

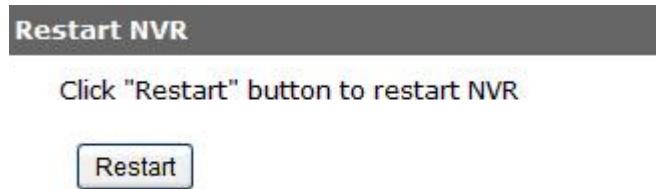
Reset NVR to Factory Default
This will restore all configurations to their factory default values
Restore Factory Default When the DHCP server function is disabled, the default IP of the system is:192.168.0.20
*** Note ***: Please DO NOT power off the system during the reset process. You will be notified once the process is complete.

Replace NVR Web UI Logo
Locate the new logo and perform the updates:
Specify the logo file: **Browse** and click **Upload Image**

Reboot the NVR

Reboot NVR-1610 after you upload a new firmware. You would need to manually reboot the system for the new firmware to take effect. Such process would prevent a recording from getting interrupted because the system would not automatically reboot itself after the new firmware is loaded onto the recorder.

Simply click “Restart” to begin the reboot process and confirm the action.



Restart NVR

Click "Restart" button to restart NVR

Restart

The restart process should be displayed and you should be prompted back to the “Maintenance” page after it is complete.

Firmware Upgrade

The firmware can be upgraded through web UI or USB. Before upgrading firmware, please backup configuration in advance.

Upgrade NVR Firmware

Locate the new firmware and perform the upgrade (**Current Firmware Version: 1.6.9p.30036167**)

Specify the firmware file: and click

***** Note ***:** Please DO NOT power off the system during the firmware upgrade process. You will be notified once the upgrade process is complete



** the firmware file comes with a “.tar.gz” file extension, please use the file as is, DO NOT unzip it. It's normal that you may only see “.tar” as the file extension in Windows as the OS hide the known file extension by default.

Upgrade through USB thumb drive

1. Prepare a USB flash disk and format with FAT or FAT32 format
2. Place the firmware in the USB flash disk and make sure it's placed at the top-level directory. Please do not place the file in a folder. (Make sure to change the firmware file name to “firmware” and leave its file extension “.tar.gz” as is before placing the file to the USB disk)
3. Plug USB flash disk into USB port on the NVR
4. The System LED on the NVR will start to flash in amber. This indicates firmware upgrade is in process
5. *** Warning *** Please wait until upgrade process finished, interrupt the upgrade process may cause system not work anymore
6. Wait until System LED remains solid in amber. This indicates firmware upgrade is finished
7. Power off the NVR and remove the USB disk the power the unit back on again
8. Restore configuration file back if needed

Reset the NVR to Factory Default

To reset the recorder back to its factory default, click “Default” button and begin the process.

Reset NVR to Factory Default

This will restore all configurations to their factory default values

When the DHCP server function is disabled, the default IP of the system is:192.168.0.20

***** Note ***:** Please DO NOT power off the system during the reset process. You will be notified once the process is complete.

The process should be displayed and you should be prompted back to the “Maintenance” page after it is complete.

6.5.4 Disk Status

“Disk Status” gives you more detailed information of the hard drive that is currently installed in the NVR.

Disk Status							
Disk ID	Status	Capacity	Remaining Disk Space	Remaining	Online Time	Recording Period	Est. Remaining Time
RAID-0_1	Online	300GB	88GB	30%	Dec 13 2011 19:41:55	Oct 12 2011 18:30:13 - Dec 13 2011 19:41:44	25 day(s) 18 hour(s)

6.5.5 USB Backup

The USB Backup provides the function to allow users to backup the recorded file of one or more channels to USB-HDD.

USB Backup

USB HDD: * Please format the HDD to FAT32 on a Windows PC before using it for backup

Channel:

<input type="checkbox"/> ICA-HM830	<input type="checkbox"/> ICA-HM132	<input type="checkbox"/> ICA-HM132	<input type="checkbox"/> Channel 4
<input type="checkbox"/> Channel 5	<input type="checkbox"/> Channel 6	<input type="checkbox"/> Channel 7	<input type="checkbox"/> Channel 8
<input type="checkbox"/> Channel 9	<input type="checkbox"/> Channel 10	<input type="checkbox"/> Channel 11	<input type="checkbox"/> Channel 12
<input type="checkbox"/> Channel 13	<input type="checkbox"/> Channel 14	<input type="checkbox"/> Channel 15	<input type="checkbox"/> Channel 16

Start Time: 16: 22: 03

End Time: 16: 22: 03

Backup

Backup the configuration to a local hard disk

Backup

USB HDD : Select the USB HDD you want to backup recorded file to it.

USB HDD: * Please format the HDD to FAT32 on a Windows PC before using it for backup

Channel : Select the Channel you want to backup.

Channel:

<input type="checkbox"/> ICA-HM830	<input type="checkbox"/> ICA-HM132	<input type="checkbox"/> ICA-HM132	<input type="checkbox"/> Channel 4
<input type="checkbox"/> Channel 5	<input type="checkbox"/> Channel 6	<input type="checkbox"/> Channel 7	<input type="checkbox"/> Channel 8
<input type="checkbox"/> Channel 9	<input type="checkbox"/> Channel 10	<input type="checkbox"/> Channel 11	<input type="checkbox"/> Channel 12
<input type="checkbox"/> Channel 13	<input type="checkbox"/> Channel 14	<input type="checkbox"/> Channel 15	<input type="checkbox"/> Channel 16

Time : Start time and End time of the backup file.

Start Time: 16: 22: 03

End Time: 16: 22: 03